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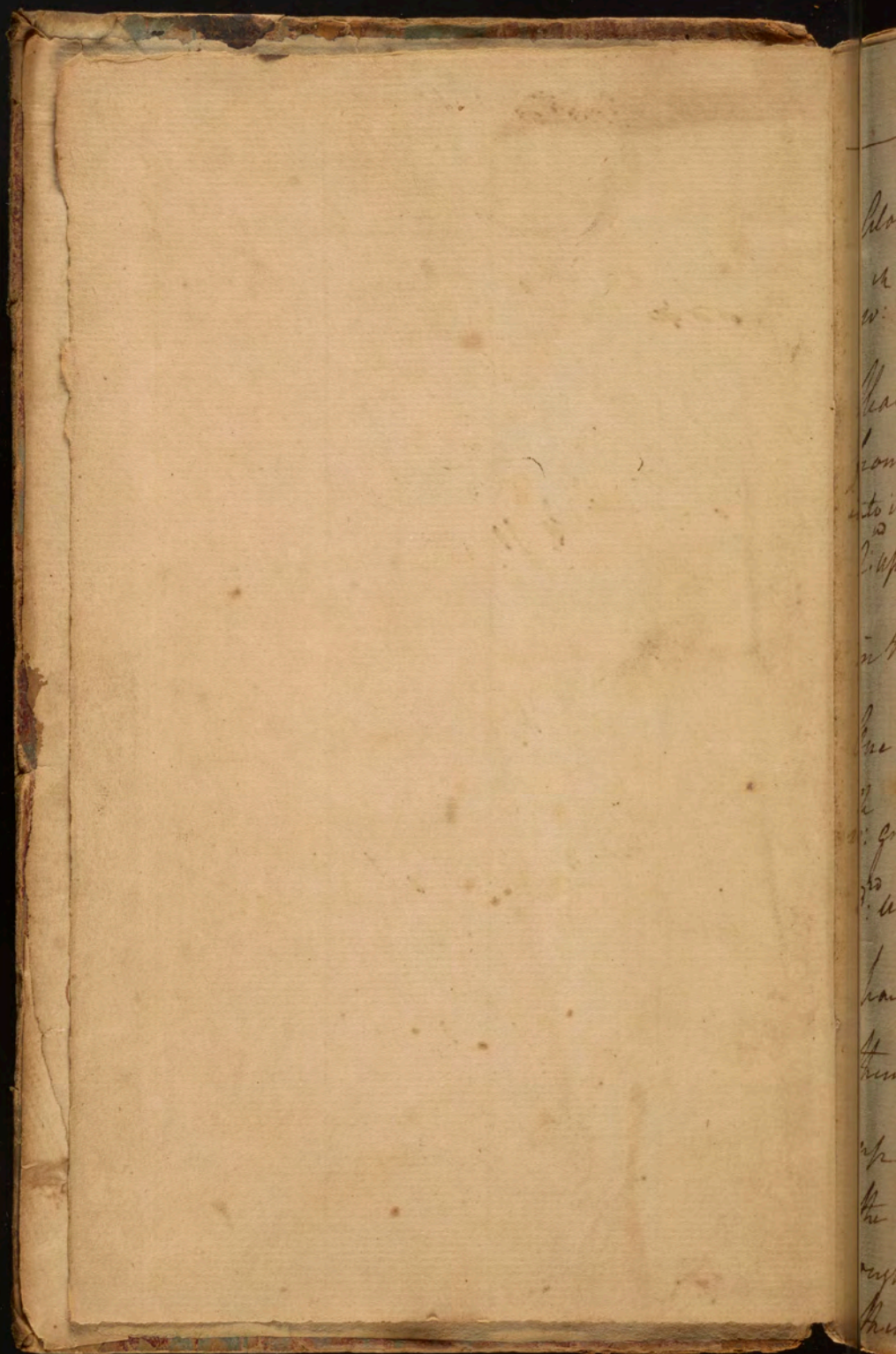
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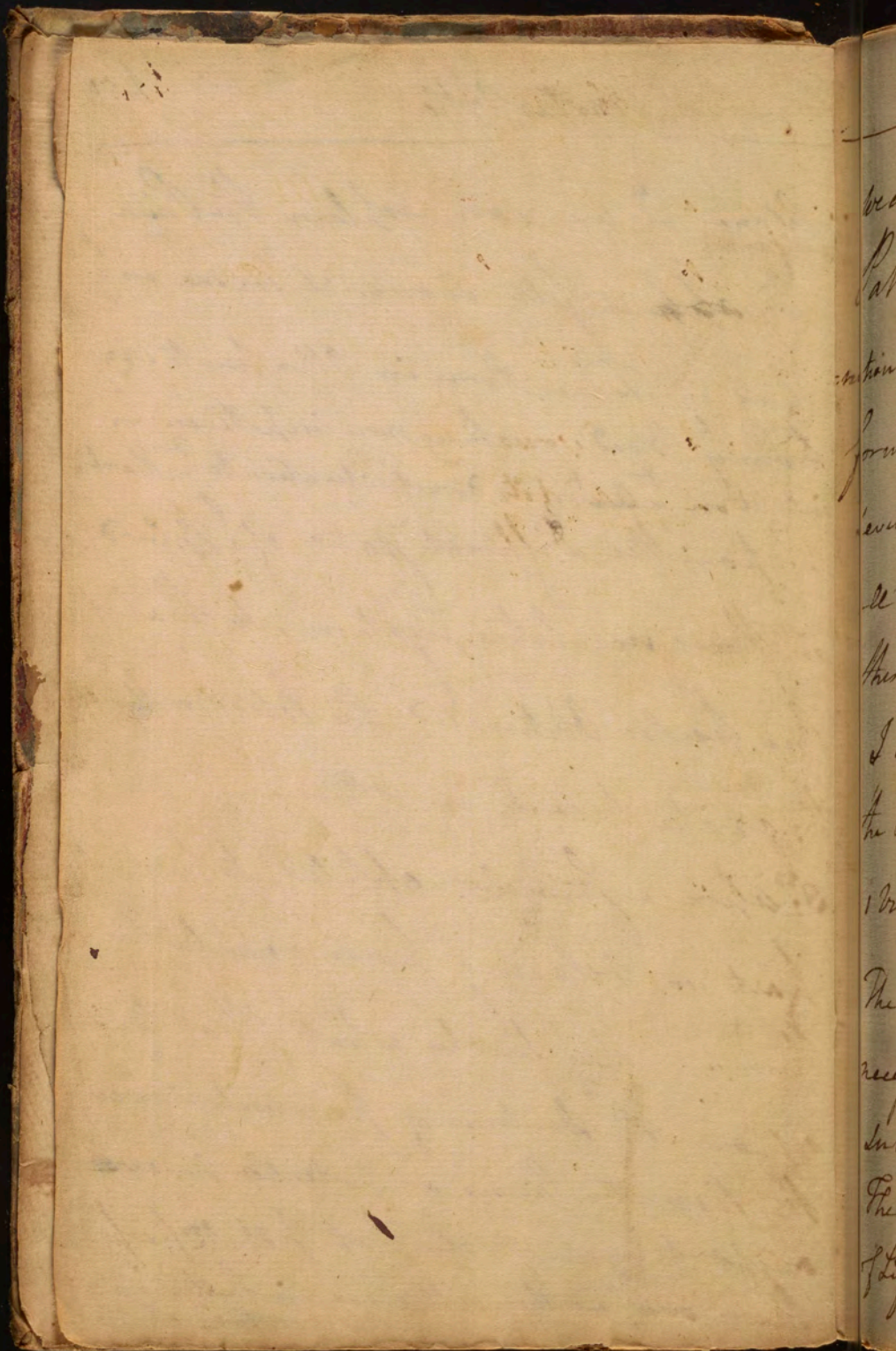
Benjamin Trask



Alone y: we can explain the Pain
 w: ~~app~~ is felt sooner & more in y
 Head in Lower than in other parts viz:
 from y^e Blood: rushing more impetuously
 into it on y^e Acc^t: of its direct Situation to y^e Heart.

2. Upon the Diffinat States of y^e Blood
 in the circulating System, so that if
 one part is Obstructed. the Blood will run
 w: greater velocity in others.

3. Upon a Stimulus applied to particular
 parts or relaxing powers applied to
 them. This finishes what I had to say
 upon the Doctrine of proximate Causes.
 the Remote Causes or potentia vivæ
 ought to come next, but I shall pass
 them over ^{here} as they will come in better in y:
 Methodus Medendi.

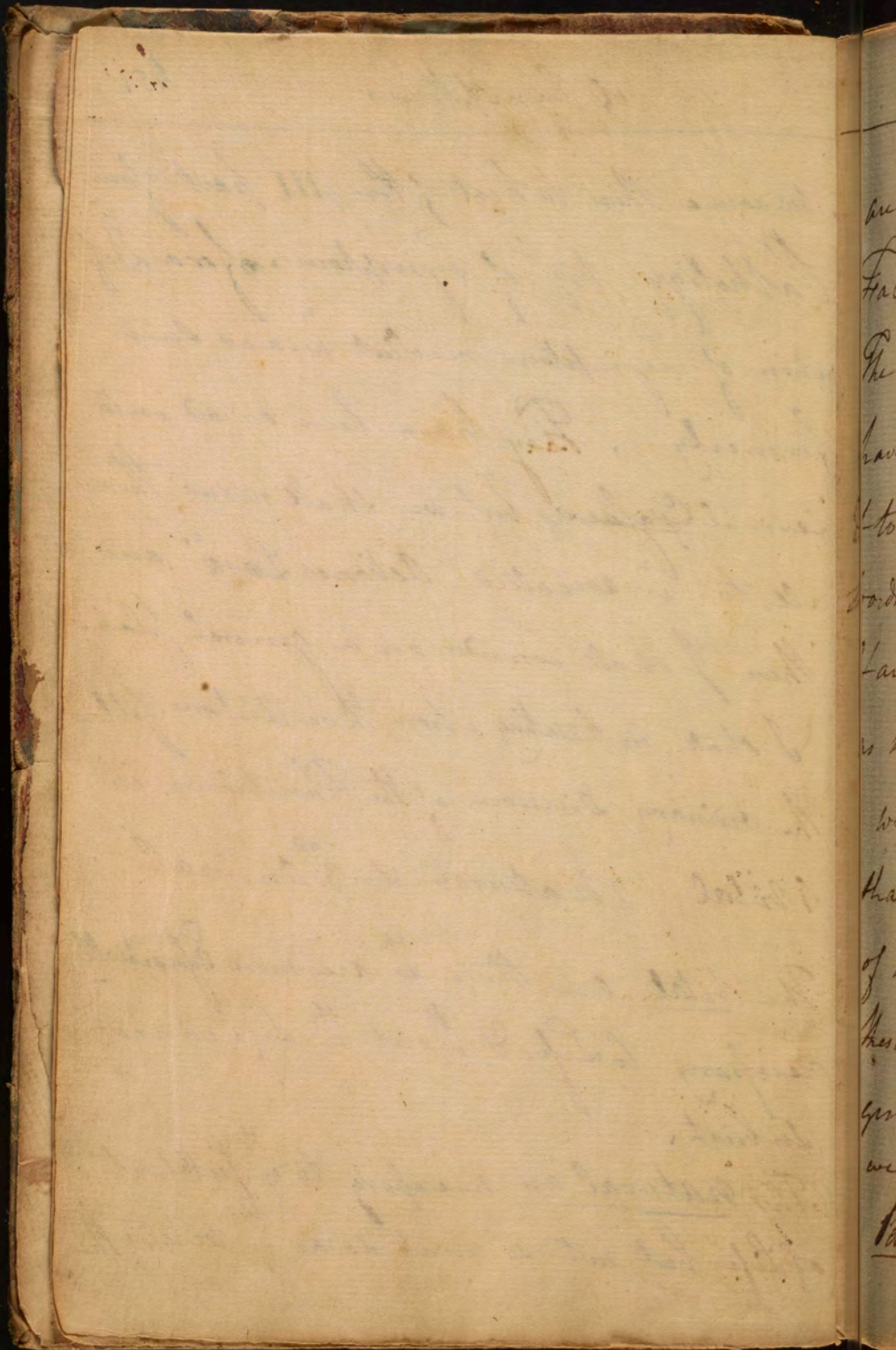


we come then to treat of the III part of our
Pathology viz: of Symptoms. for a Defi-
nition of Symptom recollect ^r w. was said
formerly. They have been divided into
several ~~Classes~~, but we shall reduce them
all to ^r w. so-called "Actiones Laesæ" and
then I shall consider on a general plan.

I shall in treating upon these Actions follow
the ordinary Division of the Functions in
1 vital 2 Natural & 3: Animal

The vital are those th w. are more essentially
necessary to Life, & wth out th w. Life cannot
subsist.

The Natural are necessary to ² support
of Life but not so much so as ² vital. They



are employed in supporting the Form &
Fabric of the body.

The Animal are those Functions w:^{ch} Animals
have, w:^{ch} disposes them to act on bodies
& to be acted on by them. or in other
words they are the Organs of Sense & Motion
& are common to all Animals as well
as man.

we shall begin w:th the last, & i:st we
shall treat of the Symptoms of Sense, or
of morbid Sensations. the first & chief of
these is Pain & Anxiety. these are y^c most
general & important of any of the Patholo?
we shall begin w:th the first.

Pain. this is a simple sensation &

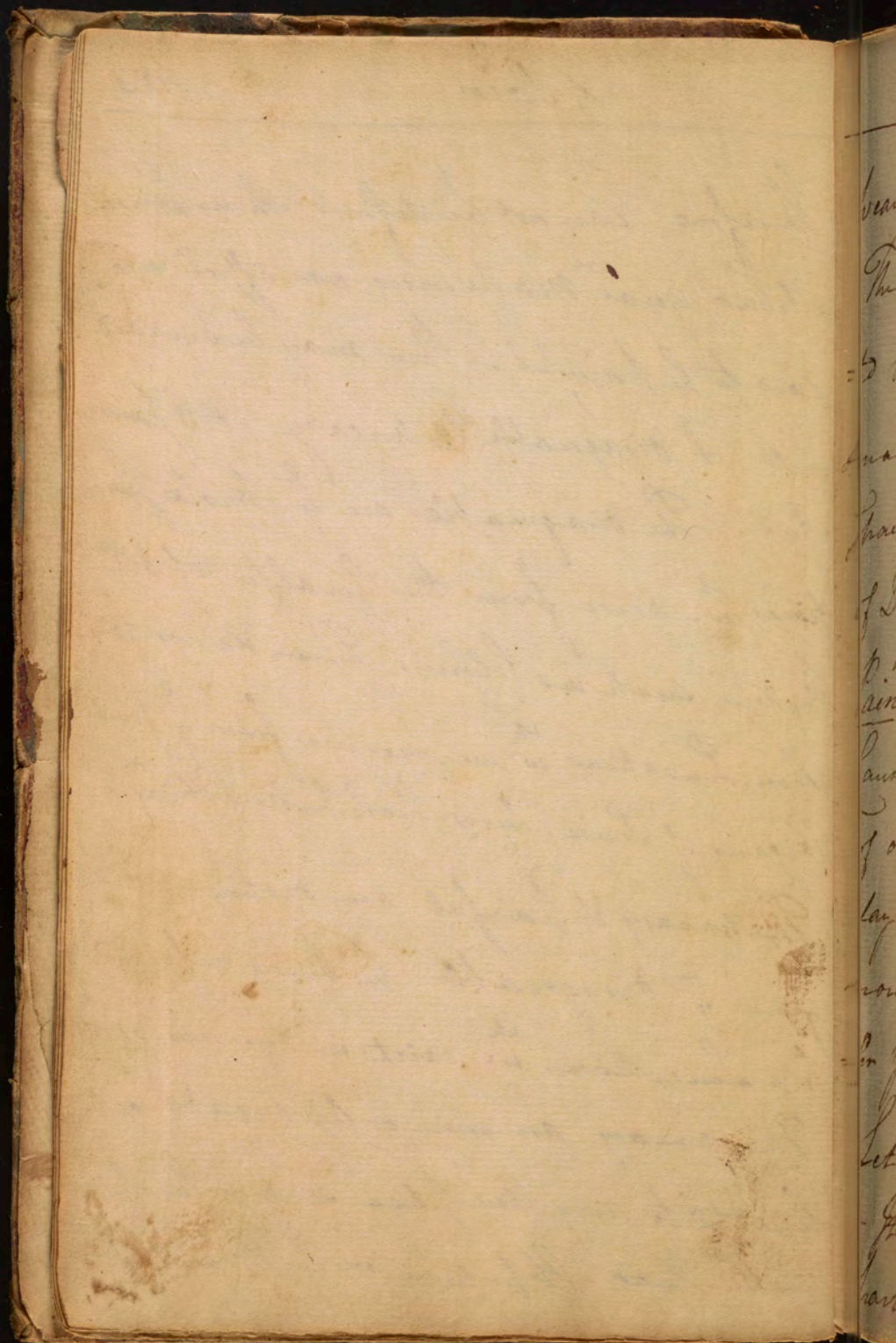
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Therefore cannot be defined. Those Sensations quas "malum non affici" are said to be painful. They may be divided into 1st disagreeable & uneasy & 2nd painful. The disagreeable are of 2nd kind & arise from the quality of other things w^{ch} arise from the quality of other bodies such as colour. Sound &c. or from those Sensations w^{ch} we receive from y^e four Organs of Sense. Seeing, Hearing, Smelling & Taste. The uneasy & painful are distinguished from y^e disagreeable by being referred to a Sensation w^{ch} exists in our own bodies.

The uneasy are more or less vague & not limited to any one place such as confusion in the Head. Oppression in y^e Breast &



weakening in the Limbs.

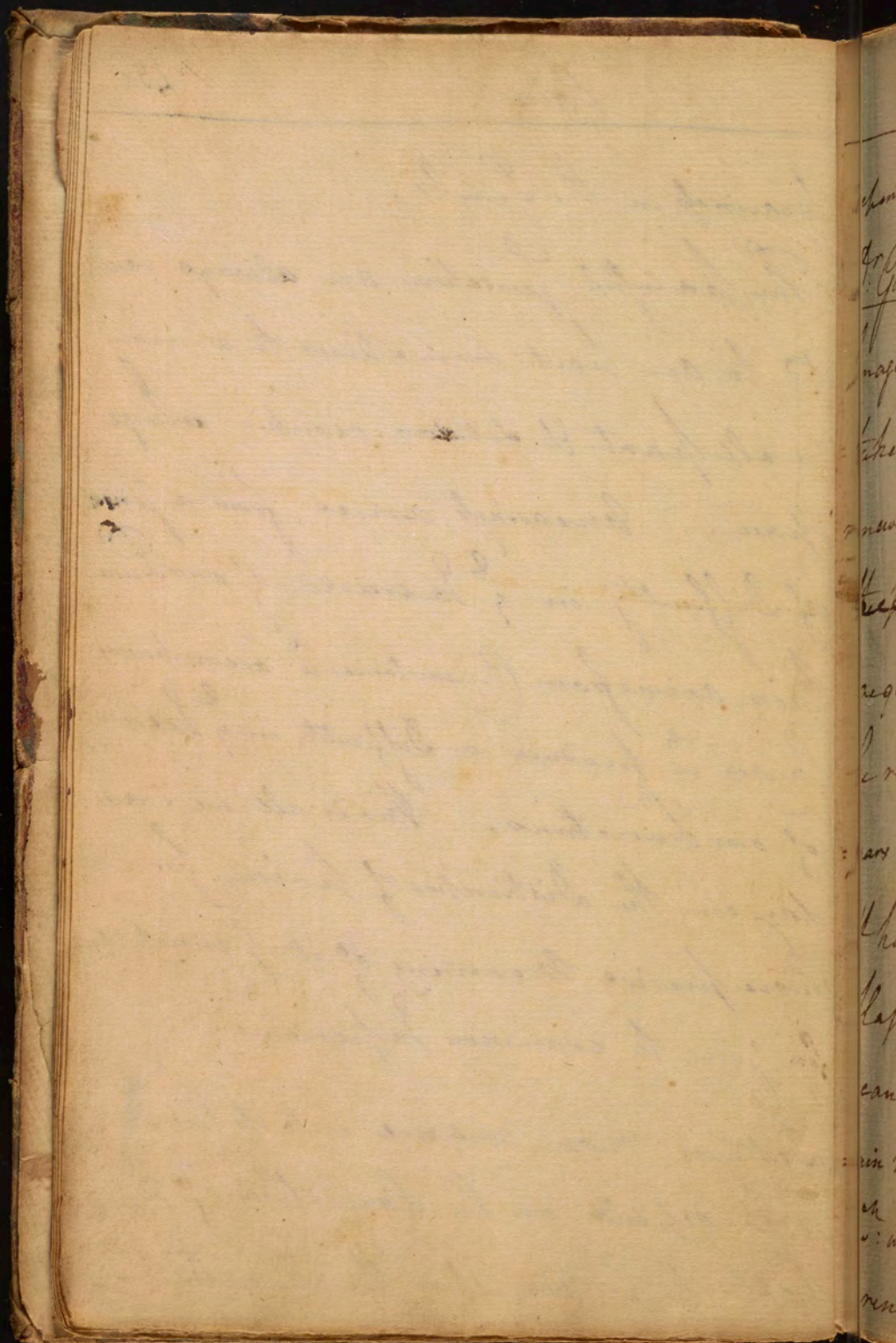
The painful Sensations are always restricted to one part sometimes to a very small part & seldom occupy a large

space. Increasing arises from a sense of Difficulty in $\frac{1}{2}$ Exercise of our Functions.

Pain arising from Circumstances ^{ch} accompanying Causes ^{ch} produce a Difficulty in $\frac{1}{2}$ Exercise of our Functions. This is all we can say on the Distinction of Pain, for a more precise Meaning of it I must refer you to common Experience.

Let us now enquire into its Cause.

It depends on the Condition of the part to w^{ch} we refer the Sensation w^{ch}

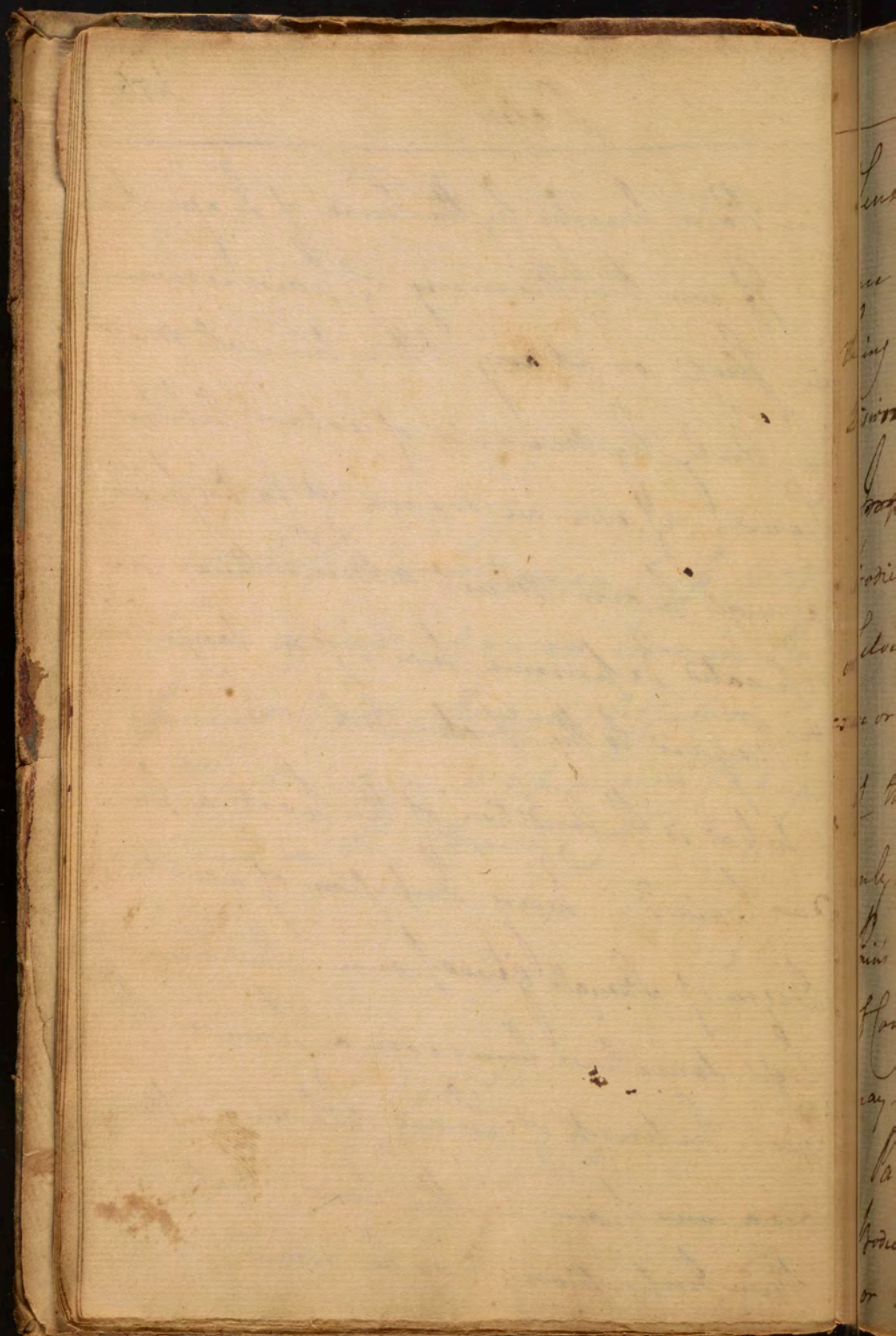


depending upon some actual Cause affecting it.
Dr. Gaubius supposes § 674 that there are
imaginary pains. but in this he is mis-
taken. we cannot have the Idea of pain
renewed in our Memories. ~~with~~ ~~as~~
~~the pain renewed~~. the Ideas of w^h we
acquire by smell & Taste cannot
be renewed by the Memory. Pain ap-
pears to be an Idea of the same nature
& happy for us it is so, as indeed ^{much} of the
Happiness of Life depends on it. we
can renew upon our Memories by cer-
tain means of Association disagreeable ^{Impres-} ~~sions~~ ^{ions}
w^h we formerly felt, but we never can
renew that precise ^{Impres-} ~~sion~~ ^{ion} we felt

(c) The pain felt in an amputated
Limb depends upon an Error in Re-
ference, & not upon an Affection of
the Limb cut on, or upon any Change
induced in the Brain.

in Pain Merely by the Force of Imagination.
- If ever the Memory of Pain is renewed
in sleep or at any other time it must
be only by means of certain arbitrary
Signs. if ever we dream of feeling Pain
a real Pain must attend there as
repeated Experience has often taught me
w: Regard to the Pooh-^{ch} (a).

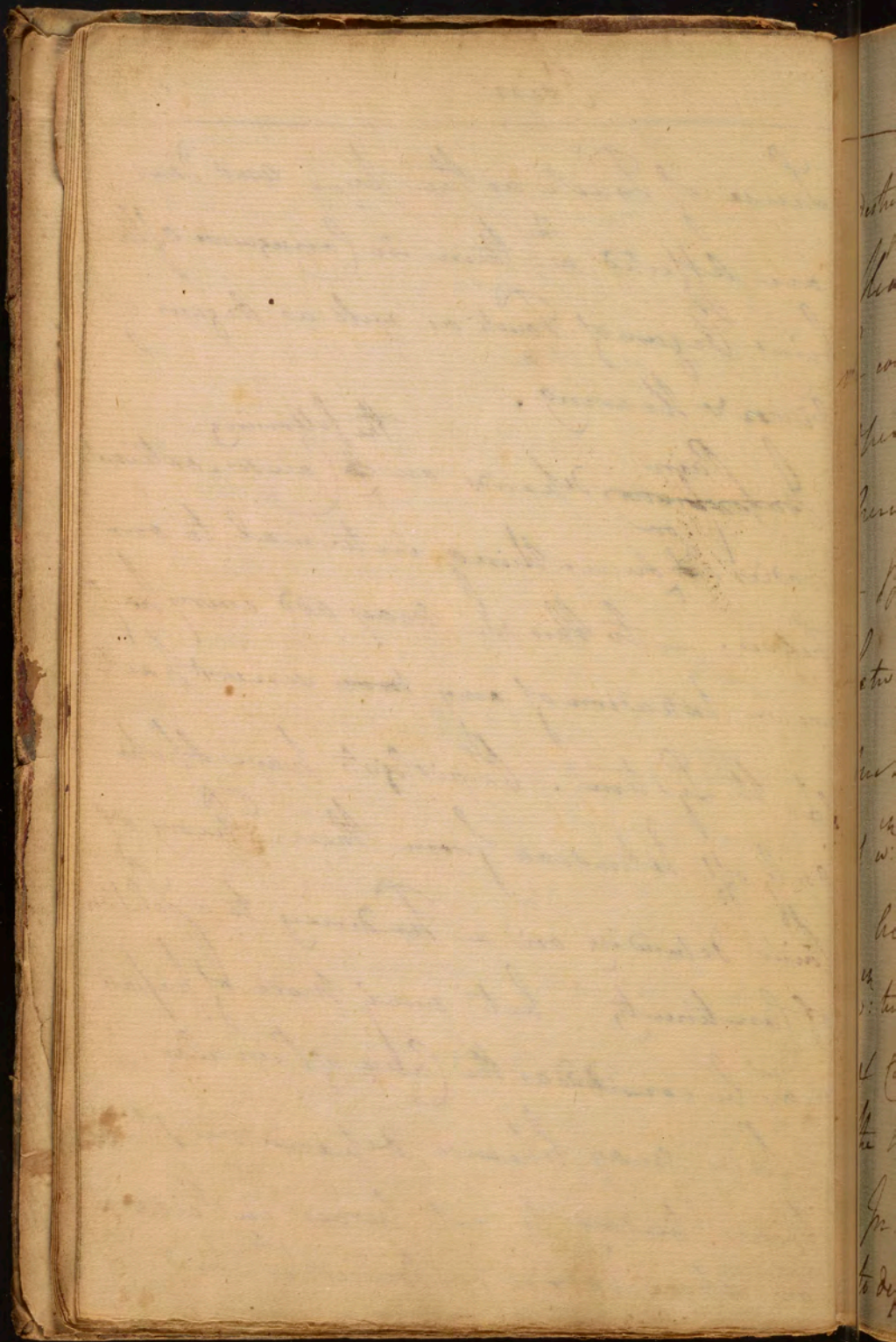
What is the Condition of the part w: pro:
duces Pain? - Every Impression of a certain
Degree of Strength gives Pain. the Force of
Light sometimes brings on a Pain in the
Eyes. Intensity of Sound likewise often
occasions Pain in the Ears. but both
these Impressions may be reduced to the



Sense of Touch as the Eyes and Ears
are affected wth them in consequence of the
being Organs of Touch as well as Organs of
Vision & Hearing.

Pain ~~proceeds from~~ depends on ^{the following} Causes. external
or ~~something~~ ^{or} something internal to our
Selves. — To this we may add every press-
ure or extension of any ~~two~~ sensitive part
of the System. Physiologists have spoke
only of Extension from their Theory of
Pain depending on a Tendency to a solution
of continuity but every mode of pressure
may be considered as the Cause of Pain also.

Pain may likewise depend on sharp
bodies tending to cut nerves in Pieces
or upon Corrosive Bodies w^{ch} tend to



destroy the texture of the nerves.

Heat & Cold in deeps may likewise be considered as causes of ~~heat~~ ^{Pain.} how ^{do they} operate? by eroding or preforming the nerves? - I shall not answer this q^t.

- But there are Sensations ^{wh} are ambiguous ²⁰⁰⁵ between painful & uneasy sensations. such as Hunger-Thirst. Pruritus &c of ^{wh} we shall say more hereafter.

All the Causes of Pain may be reduced to things ^{wh} tend to a Violation of Continuity except Pressure & Cold. & these appear to act by urging the nervous power upon the Sensorium.

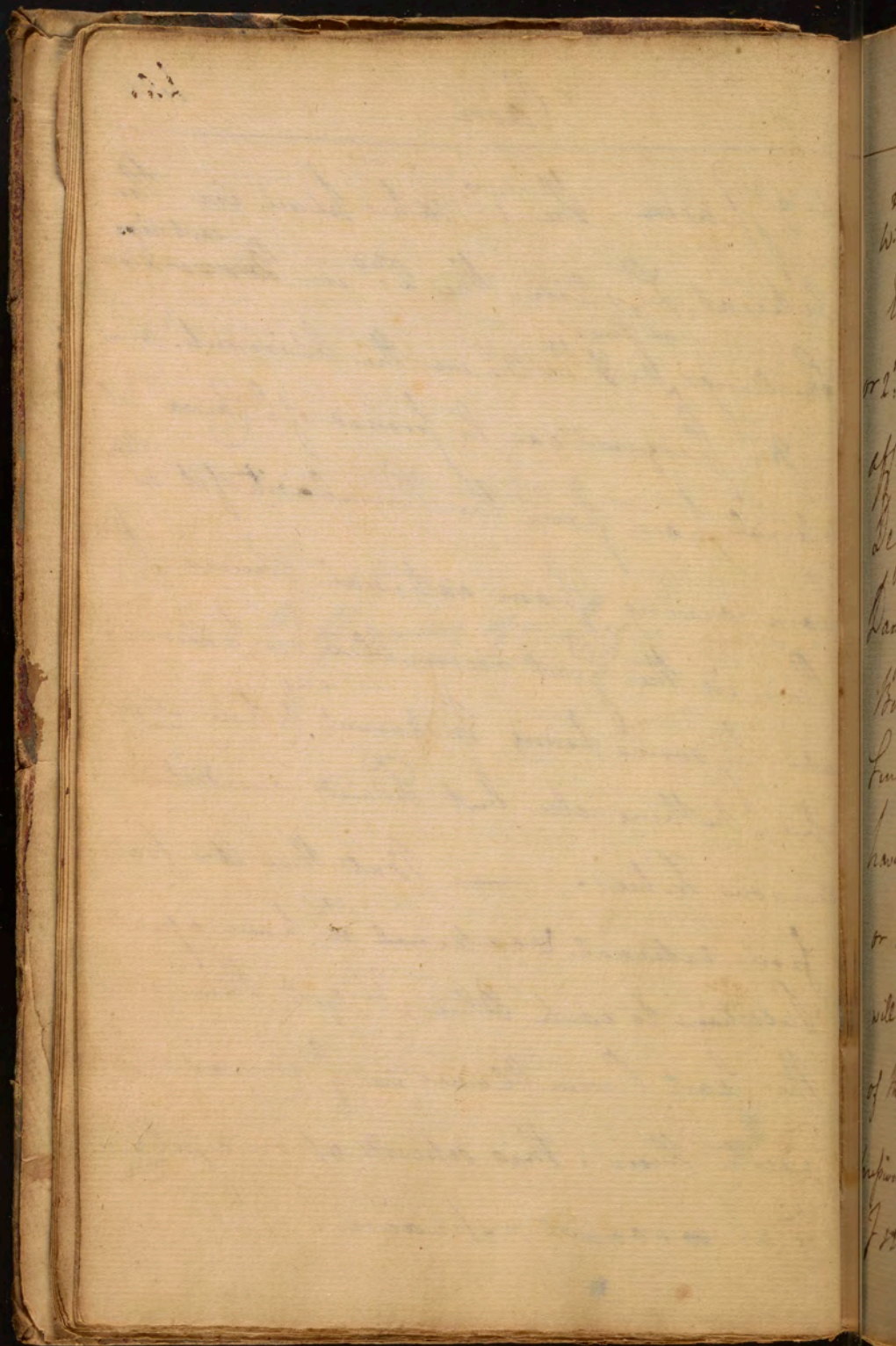
Intense pain of all kinds appears to depend on Distention. Rheumism

car for the drawing of a dog.

4 3 Spasm. The 1st takes place in the
 critical System, the 2nd in ^{certain} ~~Disorders~~
 Swellings, ^{or Jones,} & the 3rd in the Aliment: ^{Canal.}

— No Judgment can be formed of Cause of
 internal pain from the Similitude of it w:
 pain arising from external Causes. The
 Pain in the Gout resembles a pain ex-
 cited by some boring Instrument, ^{as} while it depends
 upon nothing else but Fluids overdistending
 nervous Fibres. — But there are pains

from internal & external w: have a greater
 Relation to each Other, & yet there is not
 the least Resemblance in ^{the} Causes which
 excite them. This depends upon a subtilty
 of we cannot explain.

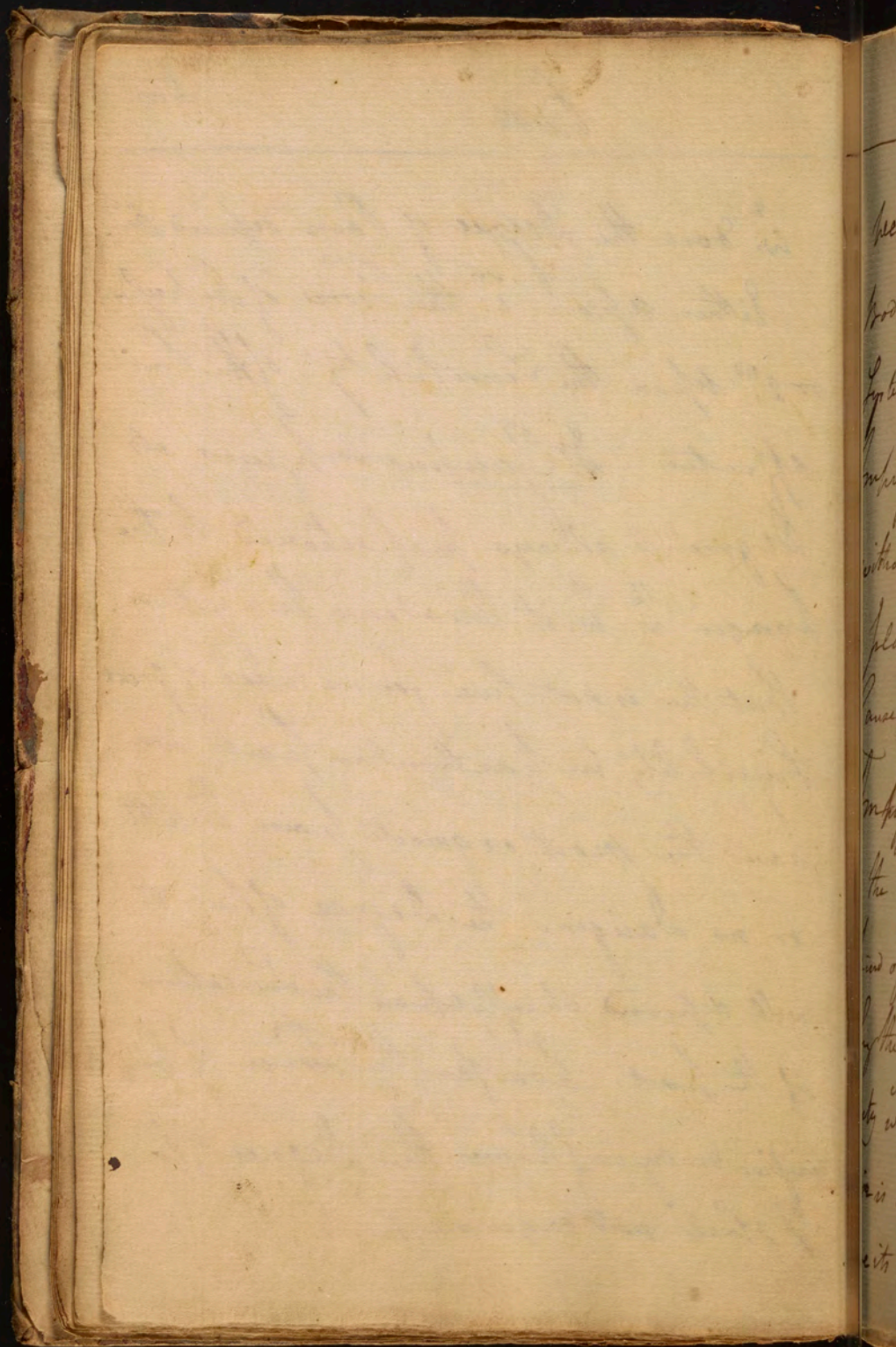


Q^d Does the Degree of Pain depend on?

either upon 1st the Force of Impression
or 2nd upon the Sensibility of the Part

affected. Dr. Gaubius supposes its
Degree is always proportioned to the
Danger th th it threatens the System.

But this is not true. for in cases of great
Sensibility in particular parts we
have the most exquisite pain wth little
or no Danger. The Degree of Pain then
will depend chiefly upon the Sensation
of the part. how far the Force of Im-
-pression may influence the Degree of Pain
I shall not enquire here.



Anxiety

We come to speak of Anxiety. all
Bodies act either externally upon the nervous
System. w^{ch} moves a fruitful source of
Impressions but there may be Impressions
without our being able to refer to the
place where the Pain is seated or the
Cause w^{ch} excites it. Pain depends upon
Impressions external to the Nervous System.
- the "moleste sensations" belong to the last
kind of Impressions w^{ch} I shall distinguish
by the name of Uneasiness instead of An-
xiety w^{ch} I think includes too much. ~~Pain~~
Pain is attended wth aversion & an effort to re-
move its Cause, whereas Uneasiness is attended

2.

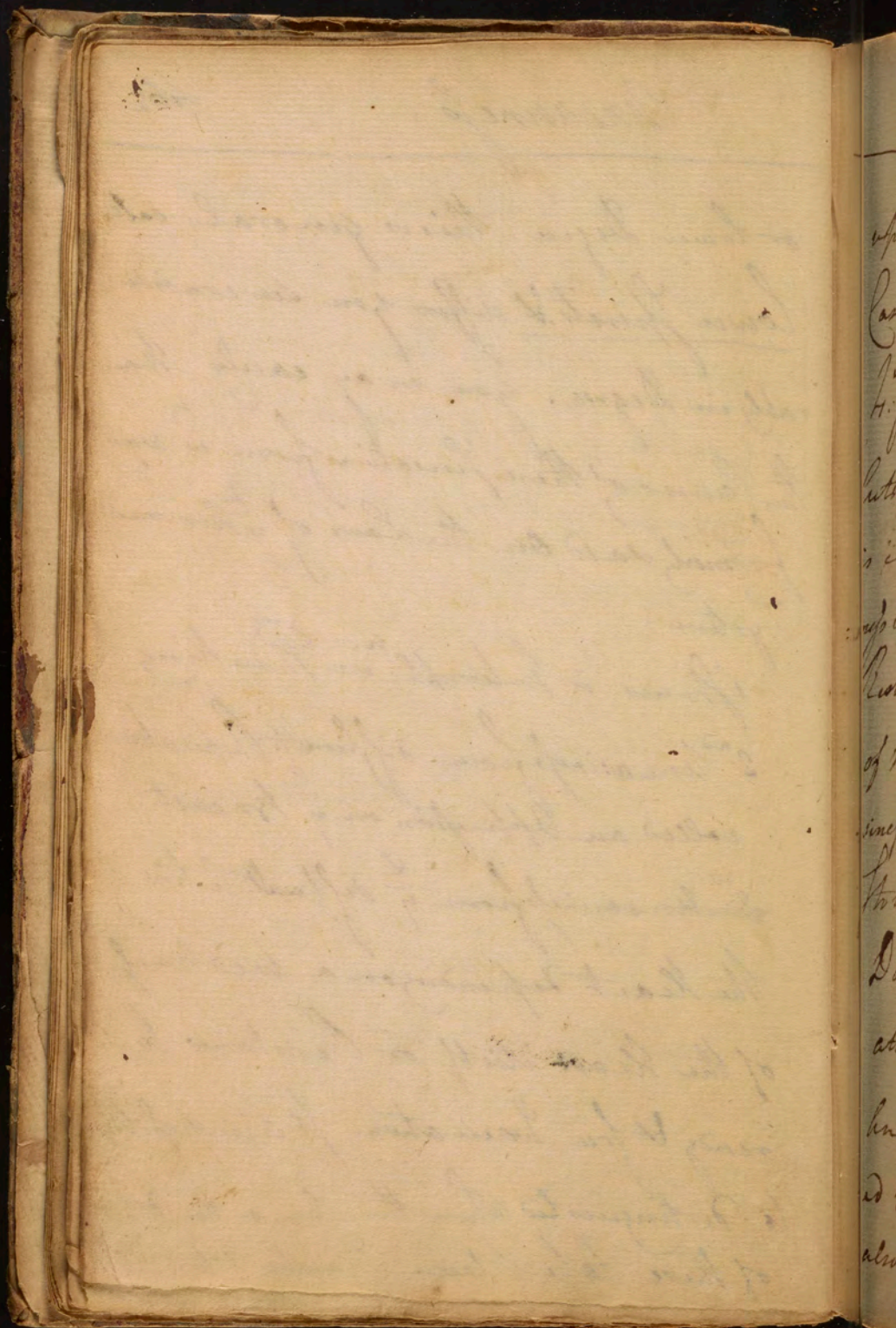
th w: but random efforts to remove it, such as Jactatio, or Restlessness and Inquietude. But there are certain Sensations th w: do not rank w: ²² painful or uneasy, such as the Appetite of Hunger Thirst &c. Let us now enumerate the various species of Uneasiness. The chief Example of it is th ~~if~~ Sensation w: arises from the Nervous System universally ~~affected~~ considered. When it is in a proper State Alacrity Gaiety Complacency & Courage succeed, but when it is in a contrary State Mourning - Sorrow - Fear - Hesitation - Perplexity - Doubt & Despair always succeed in a higher

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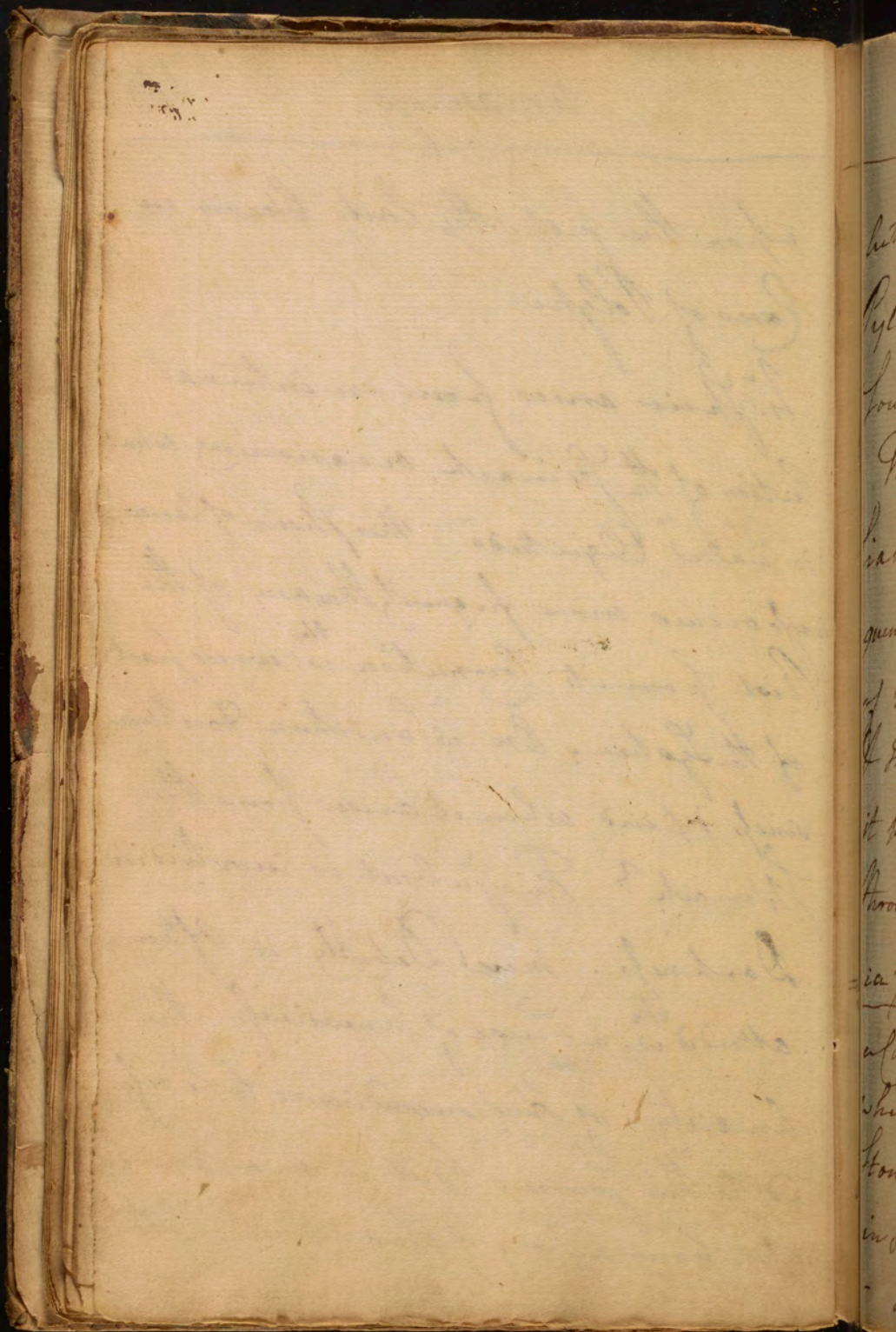
or lower Degree. this is general called
Lower Spirits, & differs you see conside-
 rably in Degree. you may easily know
 the Causes of these Sensations from w^h was
 formerly said on the Laws of y^e Nervous
 System.

- 1st Species is Interruptⁿ: in Thinking
- 2nd Uneasiness from difficult Respiration
 called an Asphyxia on y^e Breast.
- 3rd Uneasiness from y^e difficult Action of
 the Heart depending on a weakness
 of the Heart itself or Resistance to its
 ready & free Evacuation. It is impossible
 to distinguish when the One or the Other
 of these take place. Syncope depends



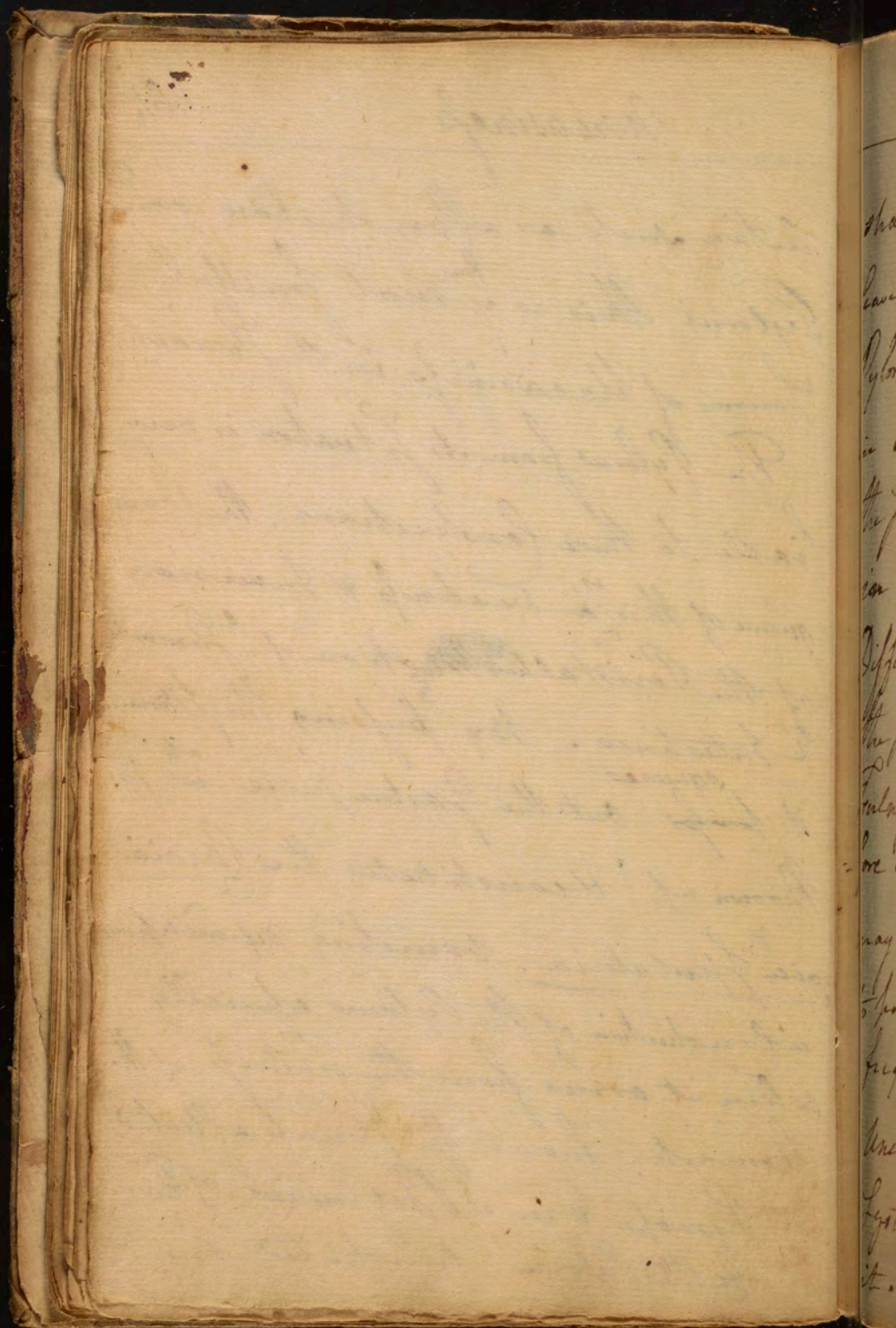
upon the first. the last Occurs in
Cases of Polypii.

1st Species arises from an internal
Action of the Stomach, occasioning what
is called "Egri tudo". This Species of Uneasiness
occurs more frequently than any of the
Rest from its Connection w: every part
of the System. On ^{the} Condition does Uneasiness
depend when it arises from the
Stomach? This subject is involved in
Darkness. mere Debility is often
attended w: a Sense of Uneasiness. the
Anxiety of Hypochondriasis to be referred
to this source. But it may arise
also from a Sense of Resistance to its

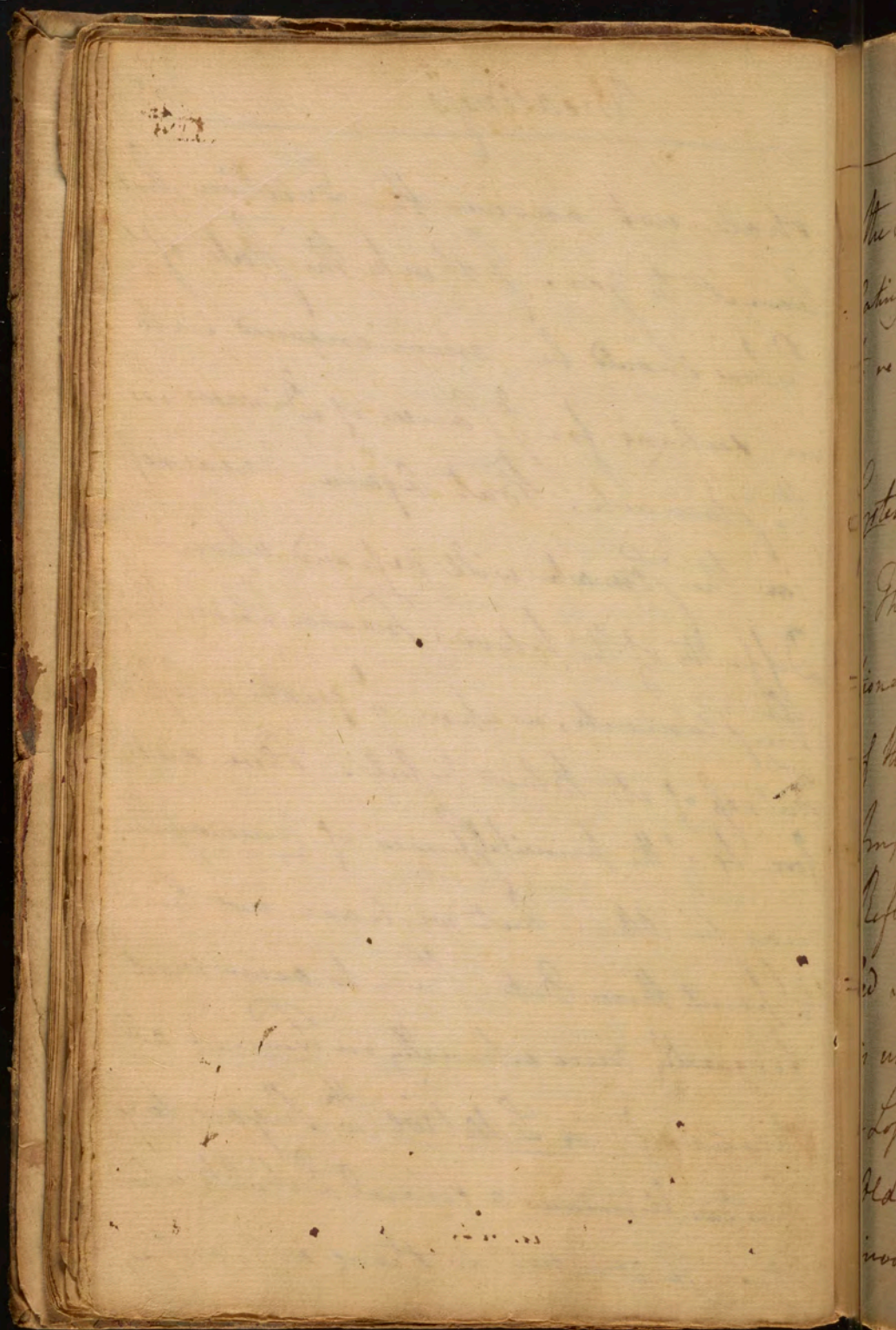


action such as a constriction only.
 Pylorus this is ^{the} most fruitful
 source of Uneasiness in the stomach.

The Pylorus from its situation is very
 liable to those constrictions. the conse-
 quence of this ^{is} a weakness & Inversion
 of the Peristaltic Motion of ^{the} stomach
 & Intestines. By pressing the stomach
 it ^{squeezes} out the Gastric Juice w^h is
 thrown up & constitutes the Cardial-
gia Spontanea. vomiting depends upon
 a constriction of the Pylorus especially
 when it arises from the fulness of the
 stomach. how is the stomach affected
 in Dyspepsia & in ^{the} Beginning of Cancer?
 - Is the Pylorus constricted here? &



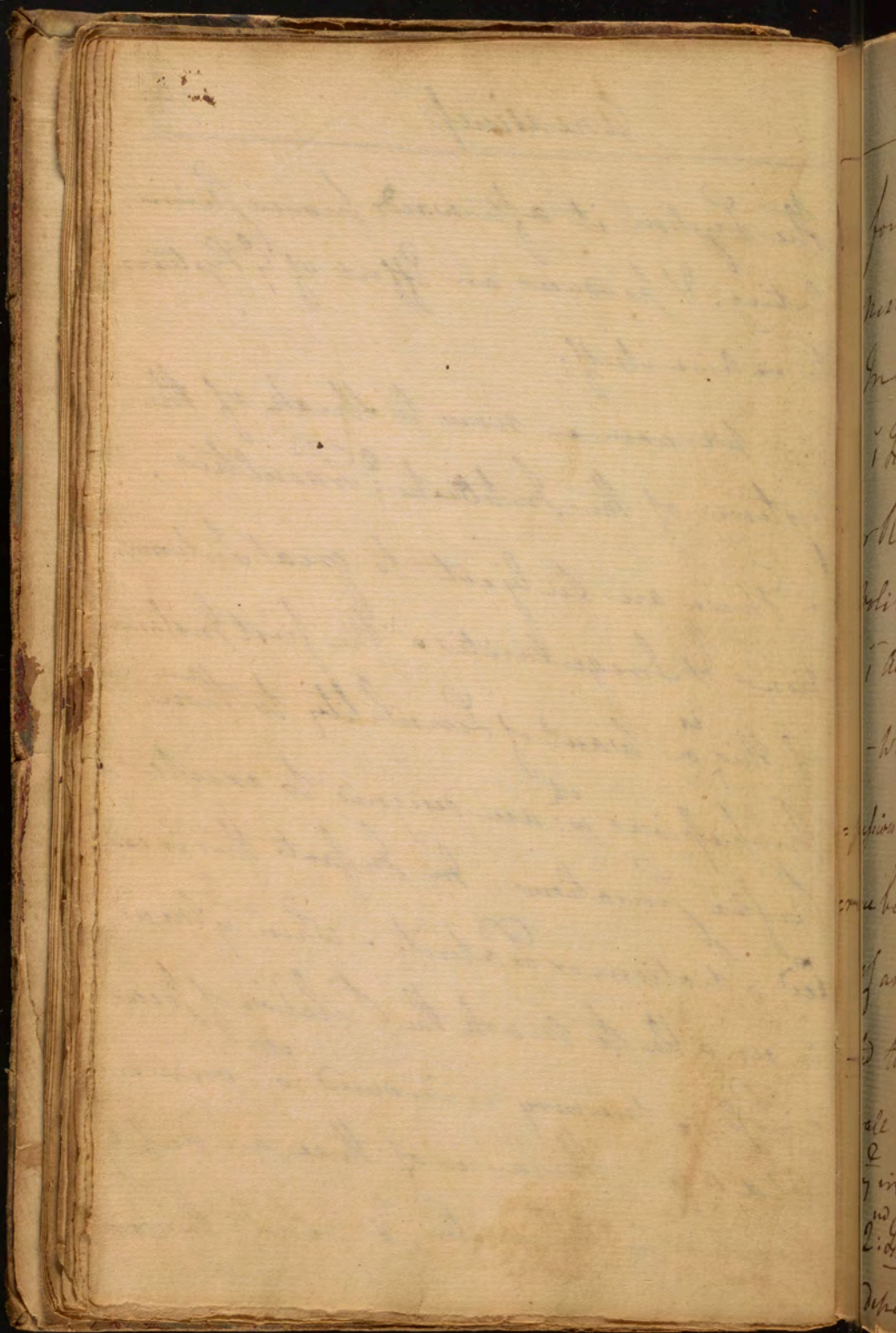
shall not answer this Question, but
 leave it to you. I think the state of
 Pylorus should be more enquired into
 in seeking for ^{the} Causes of Diseases in
 the stomach. But Again Uneasiness
 in the stomach will depend upon a
 Difficulty of the blood; Transmission thro
 the stomach, or upon ^a greater or lesser
 Fulness of its blood vessels. There are then
 fore 4 of the principal species of Uneasiness there
 may be Others, but we have not time
 to point them Out. These 4 occur most
 frequently more especially in Fevers. all
 Uneasiness is Sedative ^{the} w. regard to ^{the} System. It induces a general Debility upon
 it. If it is not so strong as to destroy



The System it afterwards proves stimulating, & produces an Effort of ^{the} System to revive itself.

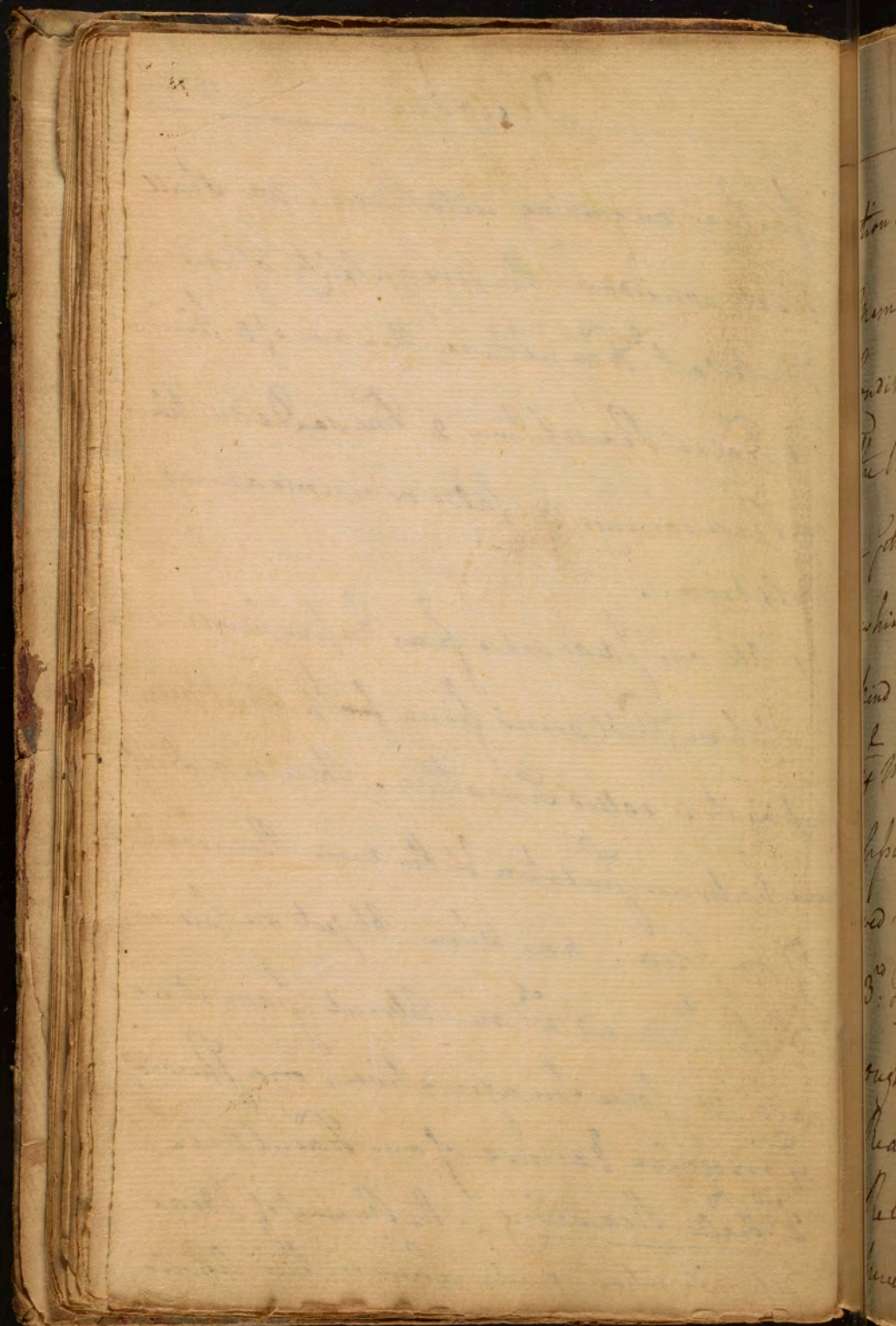
We come now to speak of the System of the Intellectual Faculties.

- These are subject to great Interruptions & Irregularities. The first Instance of this ^{is} a want of Sensibility to those Impressions ^{which} are designed to excite Reflex Sensations. In Infants this is called Idiocy or Imbecility. When ^{the} Mind is unable to mark the Relation of Ideas a Loss of Memory is induced ^{which} occurs in Old age. The Causes of these are deeply involved in Obscurity, & I shall therefore



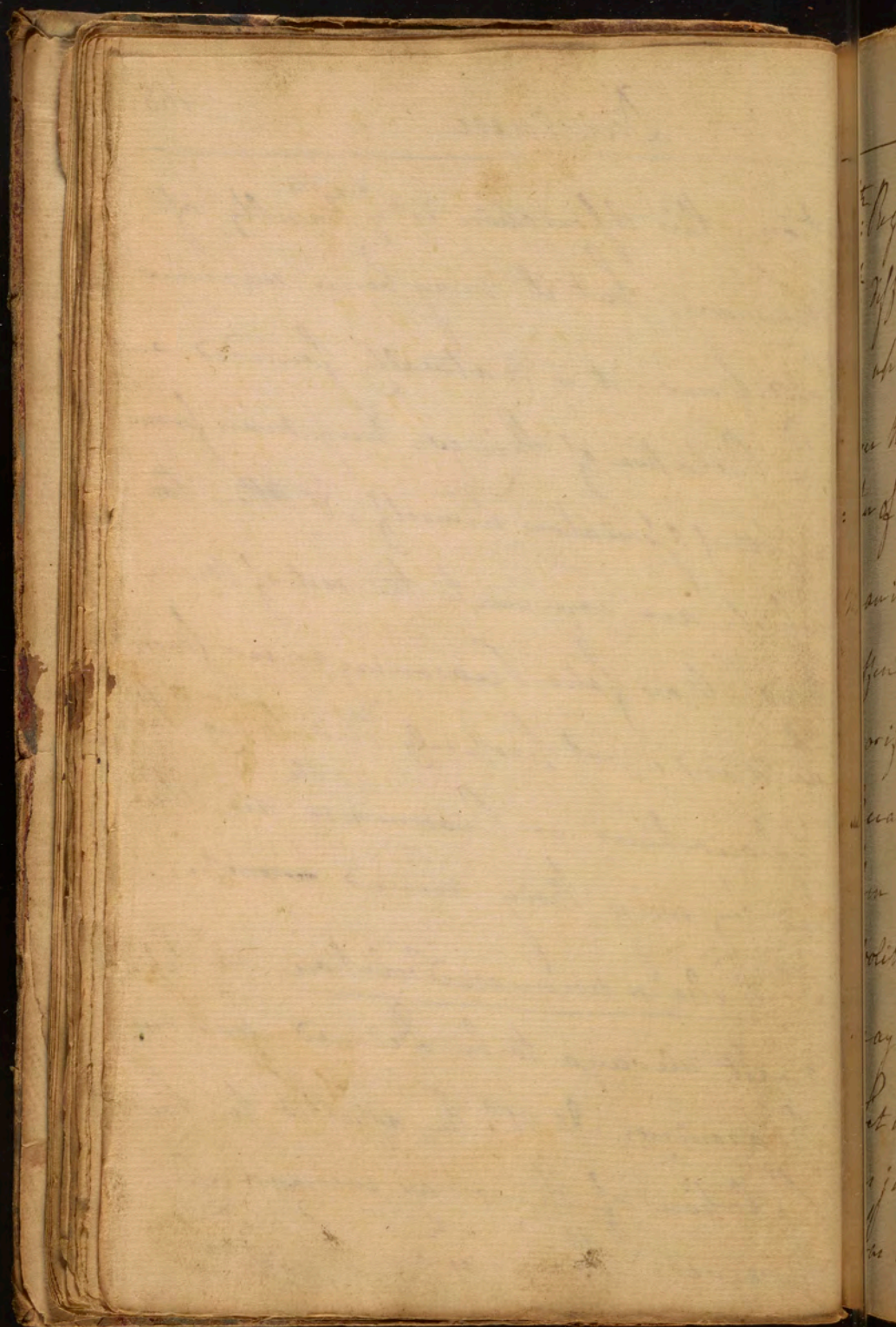
forbear enquiring into them. we shall
next consider the irregularity of our
Intellect: Faculties. they are of 3 kinds
1 False Perception 2 False Deductions
or Reasonings 3. false or unmeasured
Volition.

1 All our Ideas arise from Impression.
- When that arises from ~~for~~ present Im-
-pression it is called Sensation. there is a Diff-
erence between Sensation & the mere Renewal
of an Idea. now when Objects are present
to ^{the} mind w. are absent from it we
call it false Imagination, or a species of
irregular Exercise of our Faculties.
2: nd False Reasoning. the Renewal of Ideas
depends upon certain Laws in their Associa-

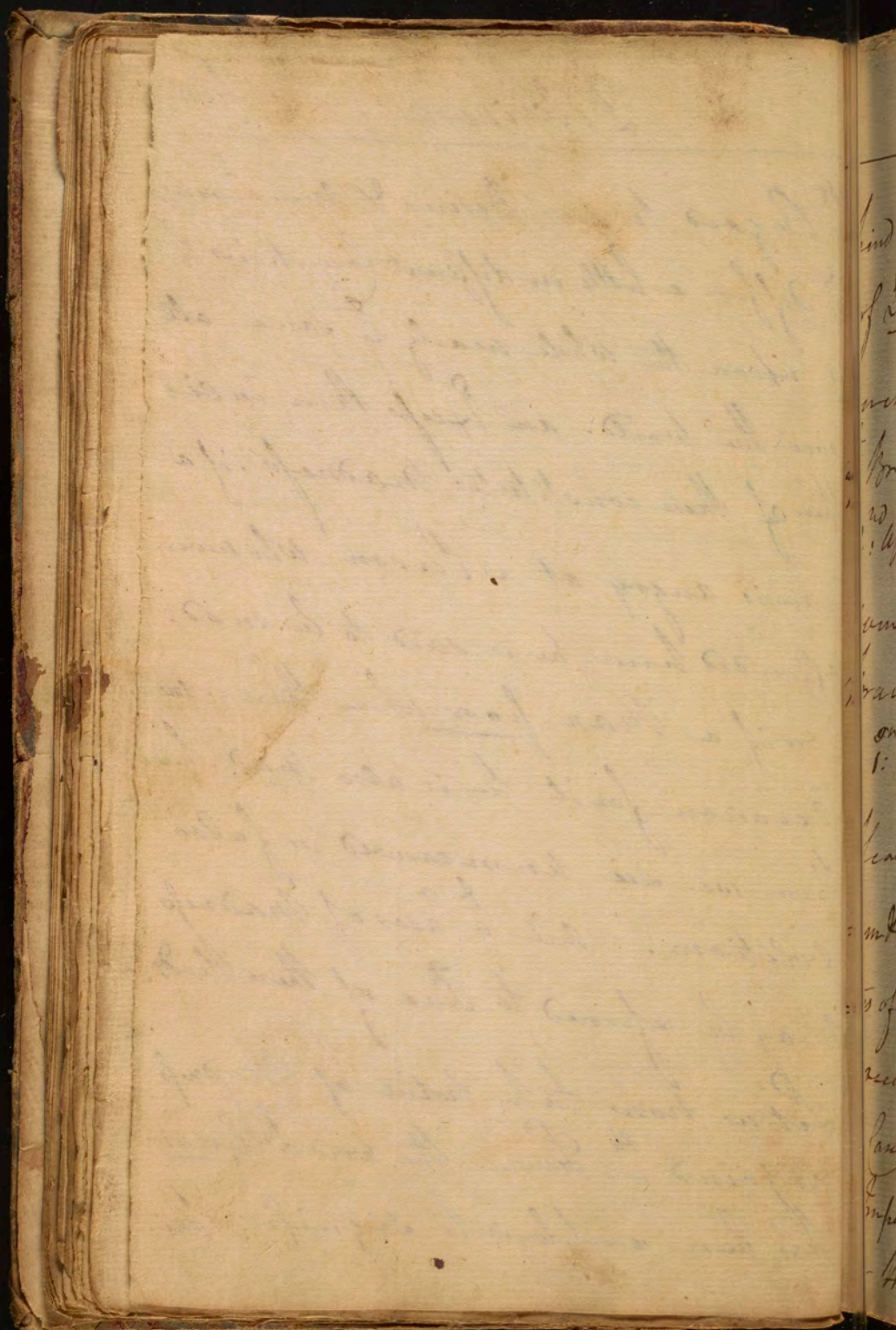


tion. This Association is ^{the} Faulty of Memory, but it may be in various Conditions: it is naturally founded on the Relation of Things. Every man forms a set of Associations himself, & others too which are common to the rest of Man-kind. Now false Reasoning arises from ^{the} Mind; not properly marking those Associations or Reasonings ⁱⁿ are observed by every body around ~~himself~~.

3.rd False or unmeasured Volition. our Passions ought always to be Devoid from our Reasonings, & sh^d be adjusted to the Relations of Things as commonly perceived. There is ⁱⁿ a standard



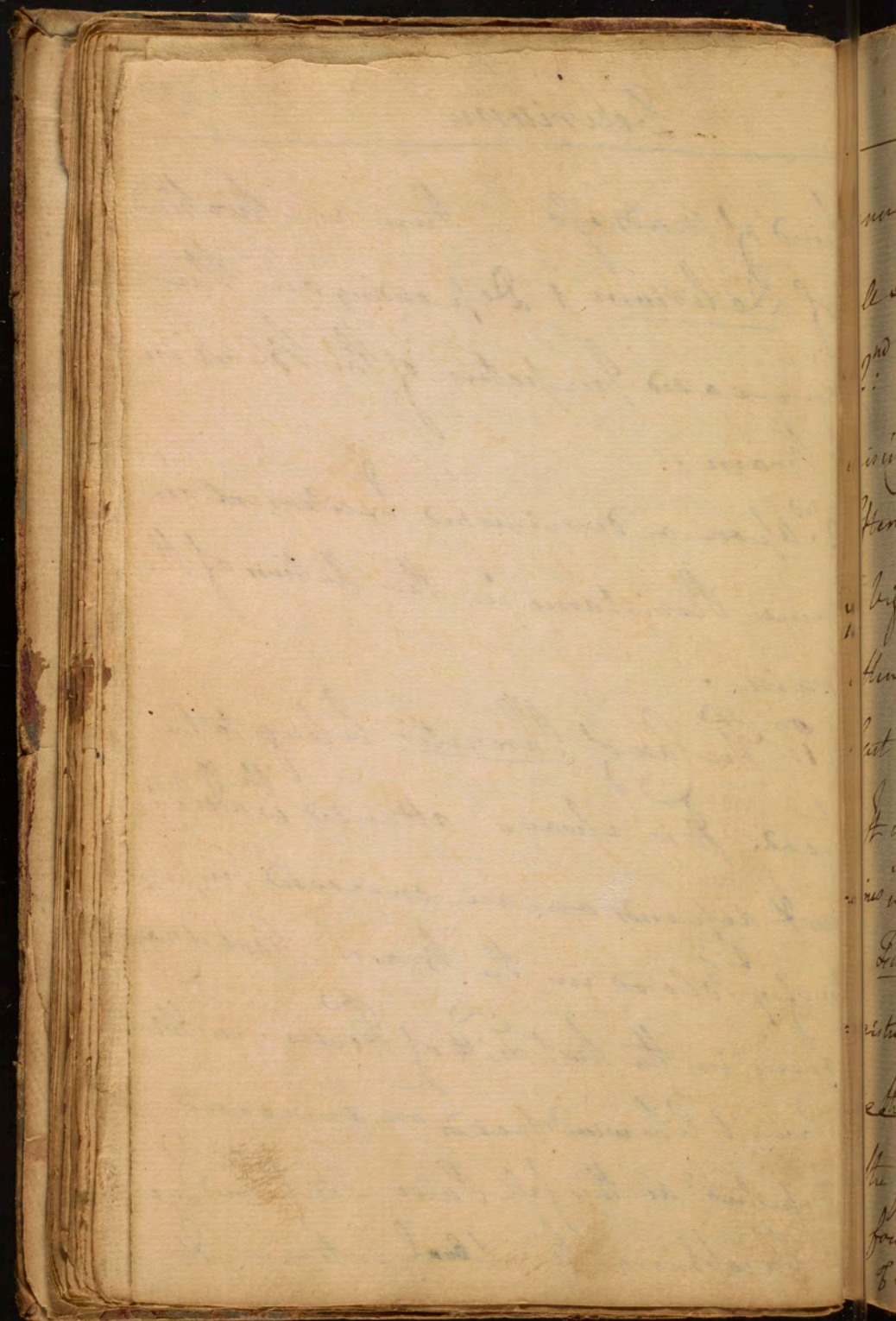
th w: Regard to our Desires & Aversions, &
th w: differ a little in different Countries but
is upon the whole nearly y^e same all
over the world. an Excess then inci:
dent of these constitutes Madness. if a
Man is angry at a Person who never
offended him he is said to be mad.
- or if a Man fears when there is no
Occasion for it he is also mad. here
then we see unmeasured or false
volition. all y^e Cases of Madness
may be referred to One of these Heads.
Let us now take notice of Madness
as joined w: th Fever. the word Delirium
has been employed to signify this



kind of madness. There are two kinds
of Delirium depending on the
increased Impetus of the Blood in
the Brain.

2nd. Upon a diminished Excitement or
some Resistance in the Action of the
Brain.

1st. The Case of Phrenitis belongs to this
Head. It is always attended wth Delirium.
It depends on an increased Impetus
of Blood in the Brain. But it may
occur in the hot Stage of Fevers. in this
Case it likewise depends on increased
Impetus as the full Pulse - inflamed Eyes
- throbbing temporal Arteries, &



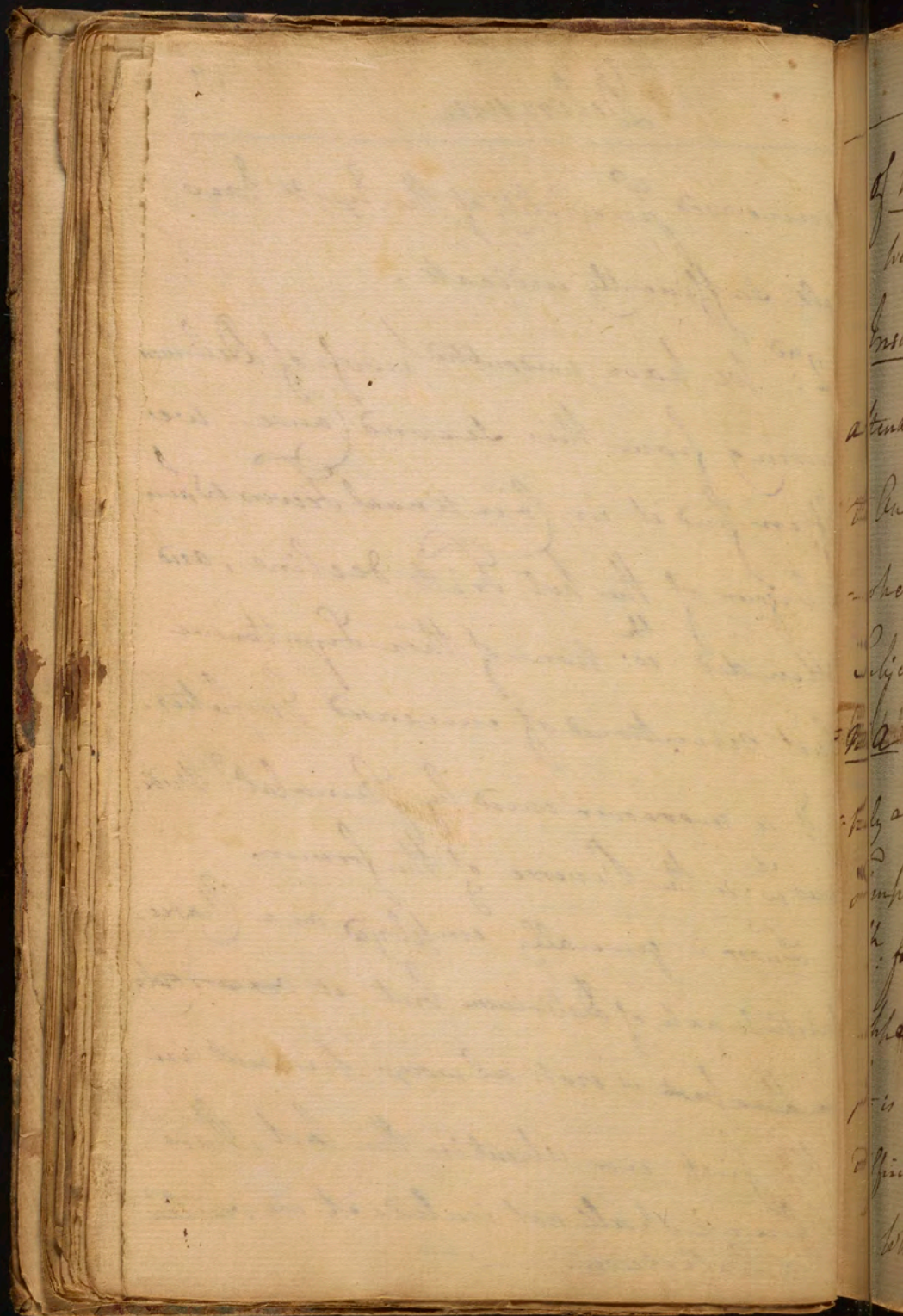
increased sensibility of the Eyes & Ears
all sufficiently indicate.

2nd We have undoubted proofs of Delirium
arising from this second Cause. we
often find it in Continual Fevers when
the vigour of the hot Life declines, and
attended wth none of those Symptoms we
last mentioned of increased Impetus.

It is moreover cured by Stimulat^g Medi-
cines w^{ch} is the Reverse of the former.

Tumor is generally employed as a Charac-
teristic mark of Delirium but it ~~occasionally~~

~~is the fact~~ is not always present in
the first nor absent in the last, there-
fore we shall not include it in our defini-
tion of Delirium.



of Madnes wth out Fever.

we shall call it Insania.

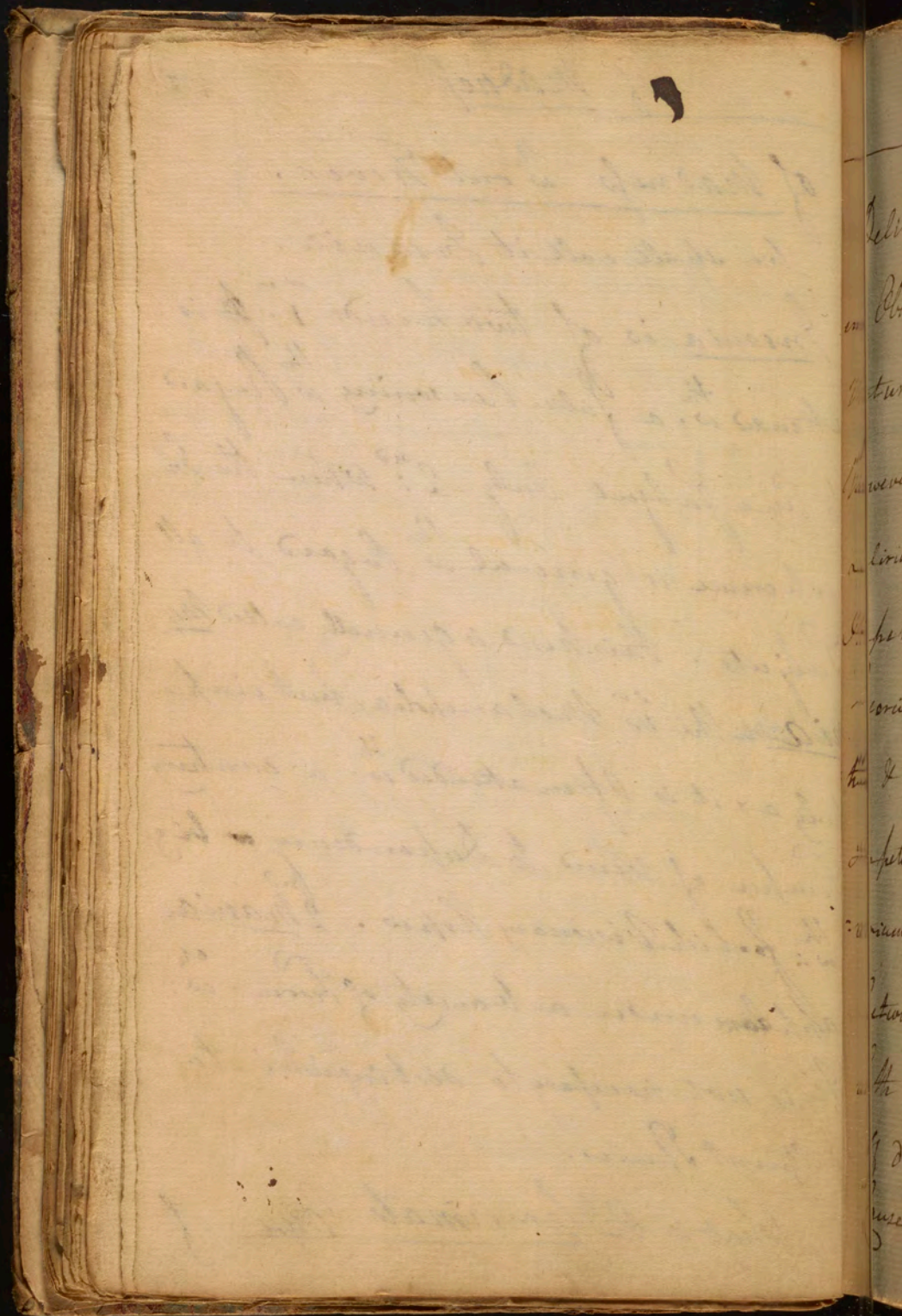
Insania is of two kinds 1st It is attended wth a false Reasoning wth regard to one Subject only. 2nd When the In-

-coherence is general wth regard to all Subjects. This kind is generally called Ma-
nia the 1st Melancholia, but impro-

pely as it is often attended wth a contrary Temper of mind to Dependence wth big-
gish foolish Visionary Hopes. 2nd Mania
appears under a variety of Forms wth:

It is not necessary to distinguish into different Species.

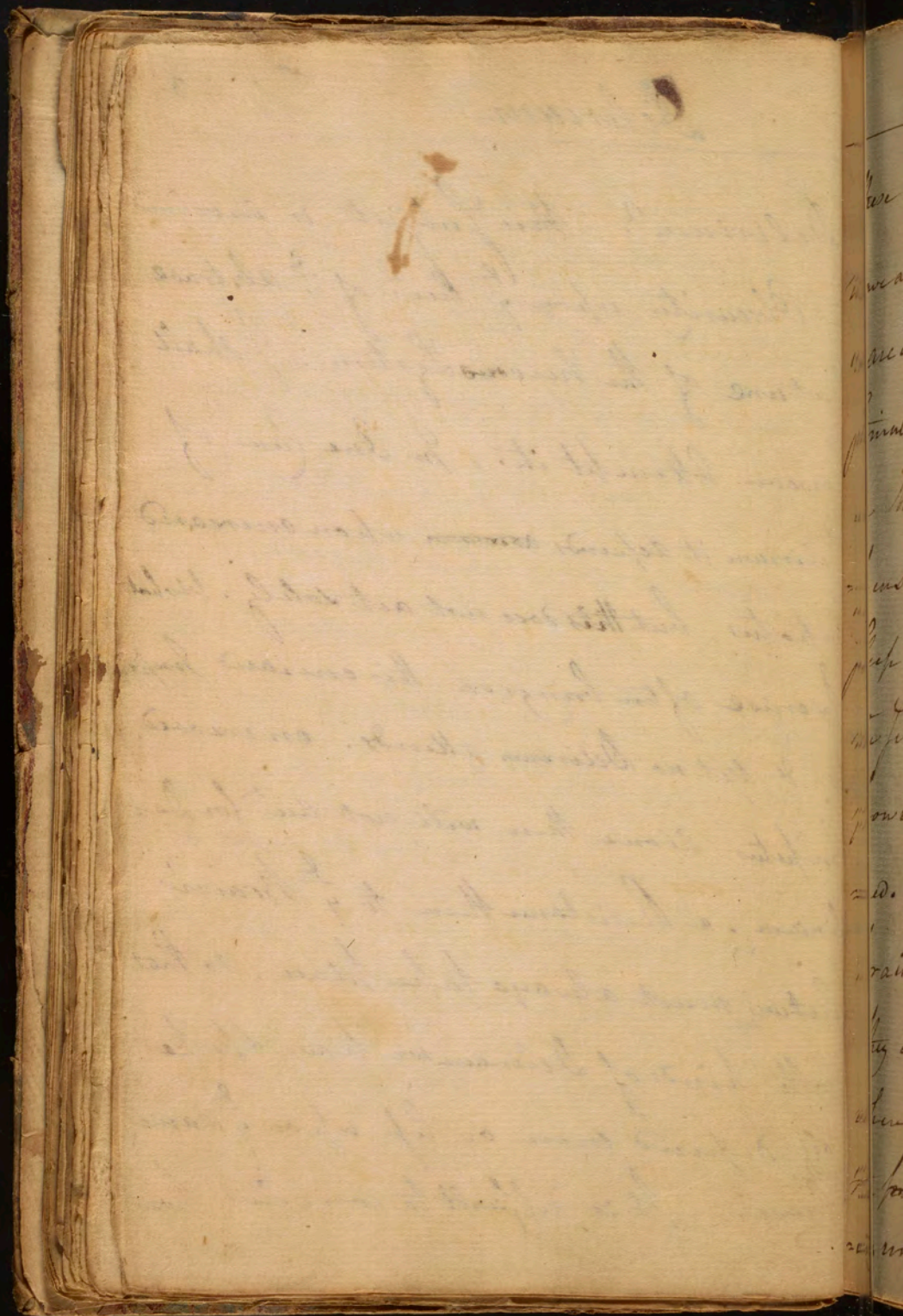
What is the proximate Cause of



Delirium

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Delirium? This Subject is involved
in Obscurity upon $\frac{1}{2}$ Acc: of $\frac{1}{2}$ abstruse
Nature of the nervous System. I shall
however Attempt it. In One Case of
Delirium it depends ~~common~~ upon increased
Impetus, but this does not act solely. violent
Excise often brings on this increased Impetus
tho' & yet no Delirium attends. increased
Impetus alone then will not acc² for De-
lirium. a Resistance then to $\frac{1}{2}$ Brain's
Action must always take place. so that
both kinds of Delirium we have spoke
off depend more or less upon $\frac{1}{2}$ same
Cause. — It is difficult to conceive how



These mixed causes operate, but we have an analogy to it in the operation of narcotics. They are both sedative & stimulating, & it is only when they act in this manner that Delirium happens. A Person just waking from sleep is in this delirious situation from the sensorium being under the mixed powers of both the causes we have assigned. ~~And~~ When a Man dreams his Brain is in this half excited state. They can only happen in those Cases where some stimulus excites part of the ~~mind~~ Brain, but from another part being unexcited, a Confusion of Thought

+ They differ from Delirium in this i.e. ^{the}
y^e Brain is in a less excited state than in
Delirium or Madness. -

(a) Men whose Imagination make
sudden Transitions from One thing to Another
& thus become witty are in one of these
situations, the Brain is in a too high
excited state. hence the Poet justly said
"Great wit & Madness nearly are allied"

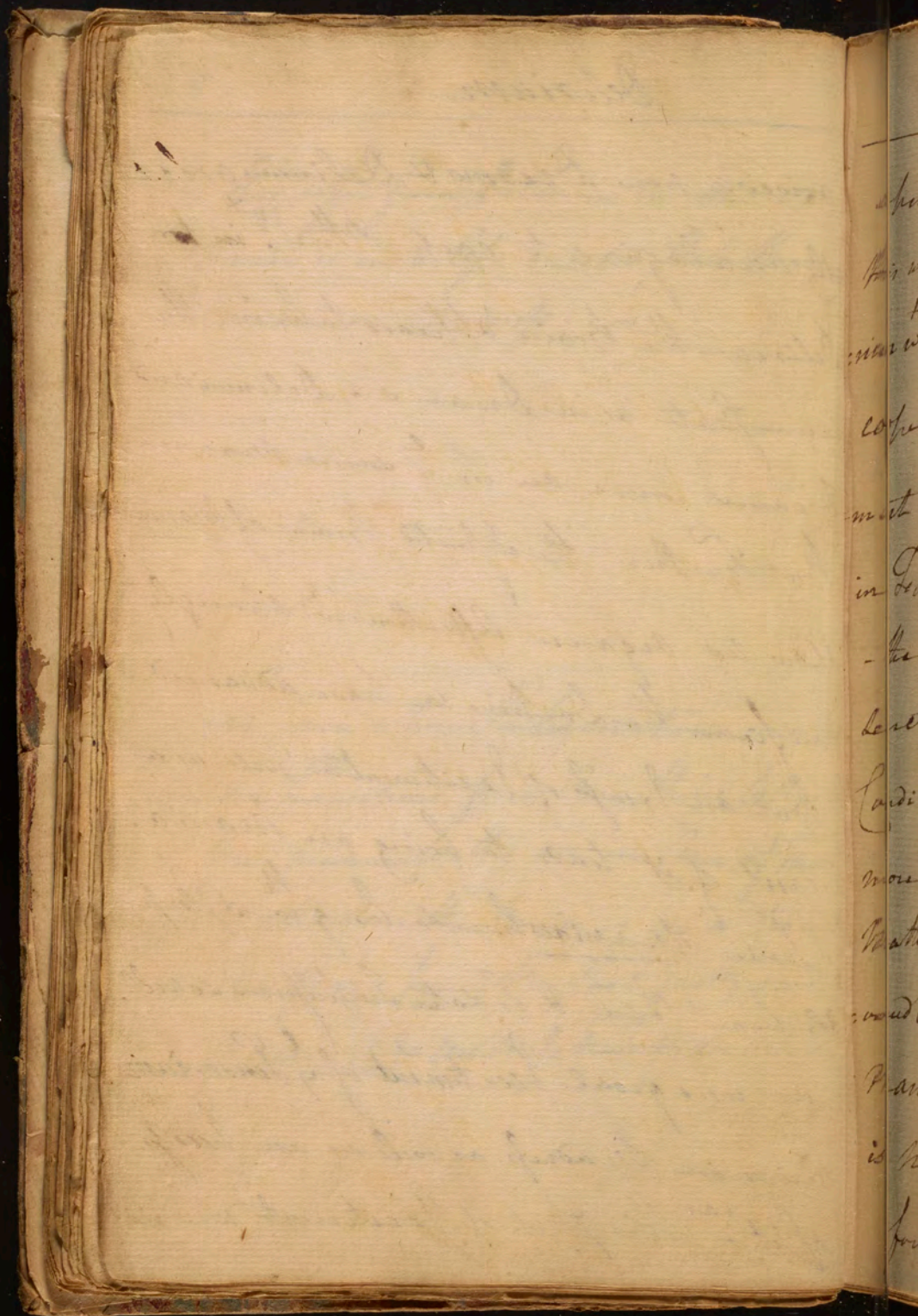
arises. now Dreams & Delirium are exactly analogous to each other. ^{it} ~~into~~ Delirium the brain appears to be in the same state as in Dreams. Delirium and Dreams come on in ^{the} same manner.

But Further the affected brains of Maniacs show no organic Affections ^{or} strongly confirm the Doctrine we have advanced.

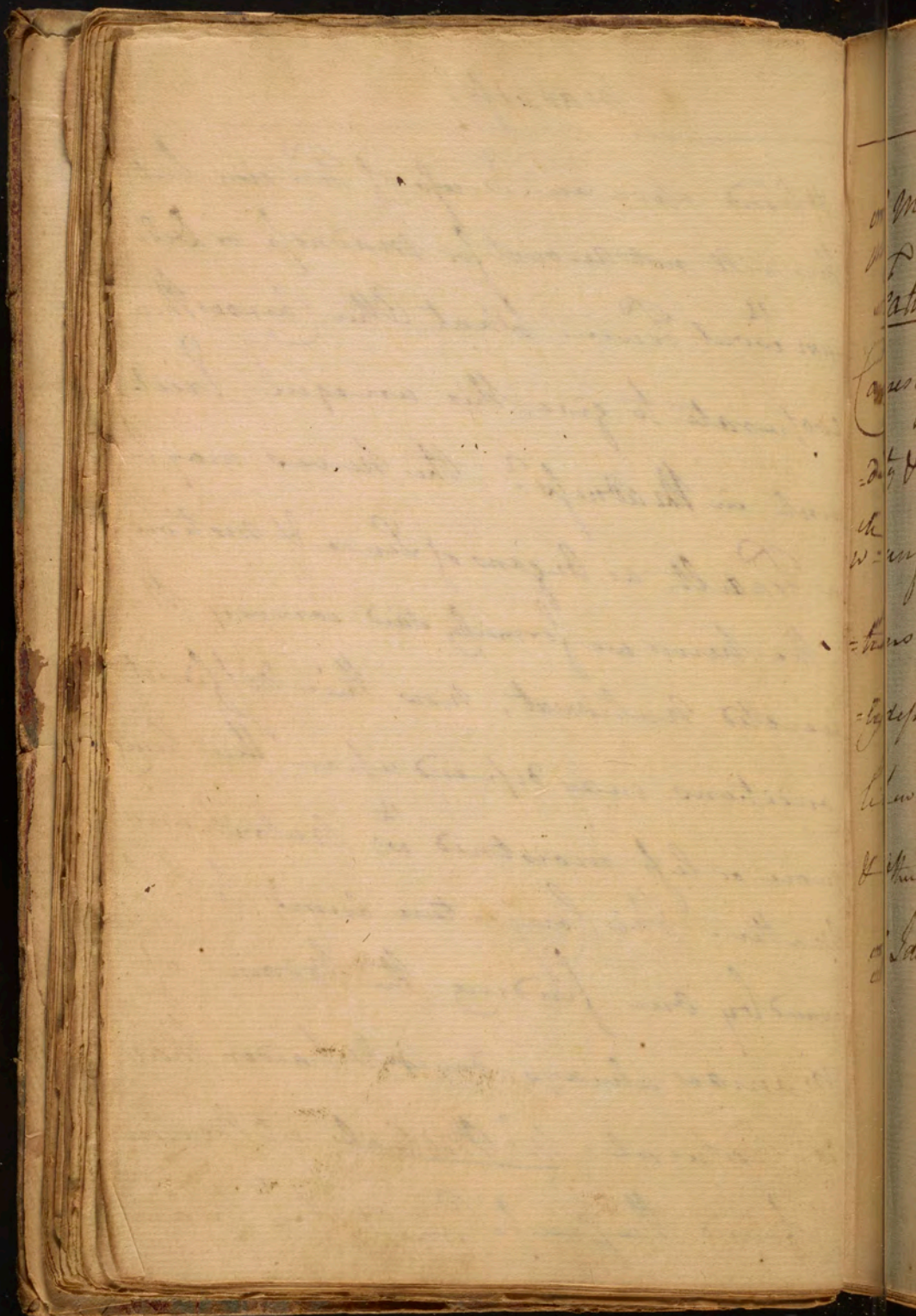
But an excess of Excitement as well as a want of it tends to bring on Mania. hence Maniacs live so long ^{the} without sleep

& bear Cold & Sedative Impulsions so well.

an unequal Excitement of ^{the} Sensorium brings on Madness as well as an excess of it. ^(a) This State of Excitement we said



depend upon an excess of Excitation, but
this will not account for madness or Delir-
ium ^{the} without Fever. What other Causes then
cooperate to give this unequal Excite-
ment in Madness? the nerves may be
in Fault, as organs of Sense & motion.
- the nerves we formerly said convey the
secreted Nutrient, now this different
Conditions may depend upon their being
more or less moistened wth nutritious
Matter. This Conjecture seems to be fa-
voured by our finding the brains of
Maniacs always dryer & harder than
is natural. M^r. Mehel at Berlin
found the specific Gravity of $\frac{1}{4}$ Brain



of mania considerably increased.

Fecundity depends upon the Reverse
Causes of Madness viz: too great Elastic-
ity & Humidity of the Brain & nervous
system which enables them to propagate Oscilla-
tions. The Fecundity of Infants evident-
ly depends upon this Cause. Dissections
likewise support this Doctrine. Morgagni
& other Dissectors have found the Brain
of Idiots always preternaturally soft.

(as This may be subdivided into
two kinds 1st where the Sensorium is
not affected, & 2^d where the Sensori:^m
affected wth Stupor. the first has been
called by Authors Coma strictly
speaking. the 2^d Epilepsy. the ~~Systemic~~ ^{describable}
may likewise be bro't under this second
Head.

The moving Power may be divided into ^{two} kinds as 1. consisting in Excess of Motion & 2. in want of Motion.

Spasm belongs to the first. This may be divided into two kinds. 1. as Alternating wth Relaxation w^{ch} is called Convulsion or Motus Clonicus. 2 Spasm w^{ch} does not Alternate wth Relaxation. & Continues. This is properly called Spasm or Motus Tonicus.

The Causes of Spasm & Convulsion are nearly the same & often mixed. I will explain them to you before when treating on Irritability. They may depend

my

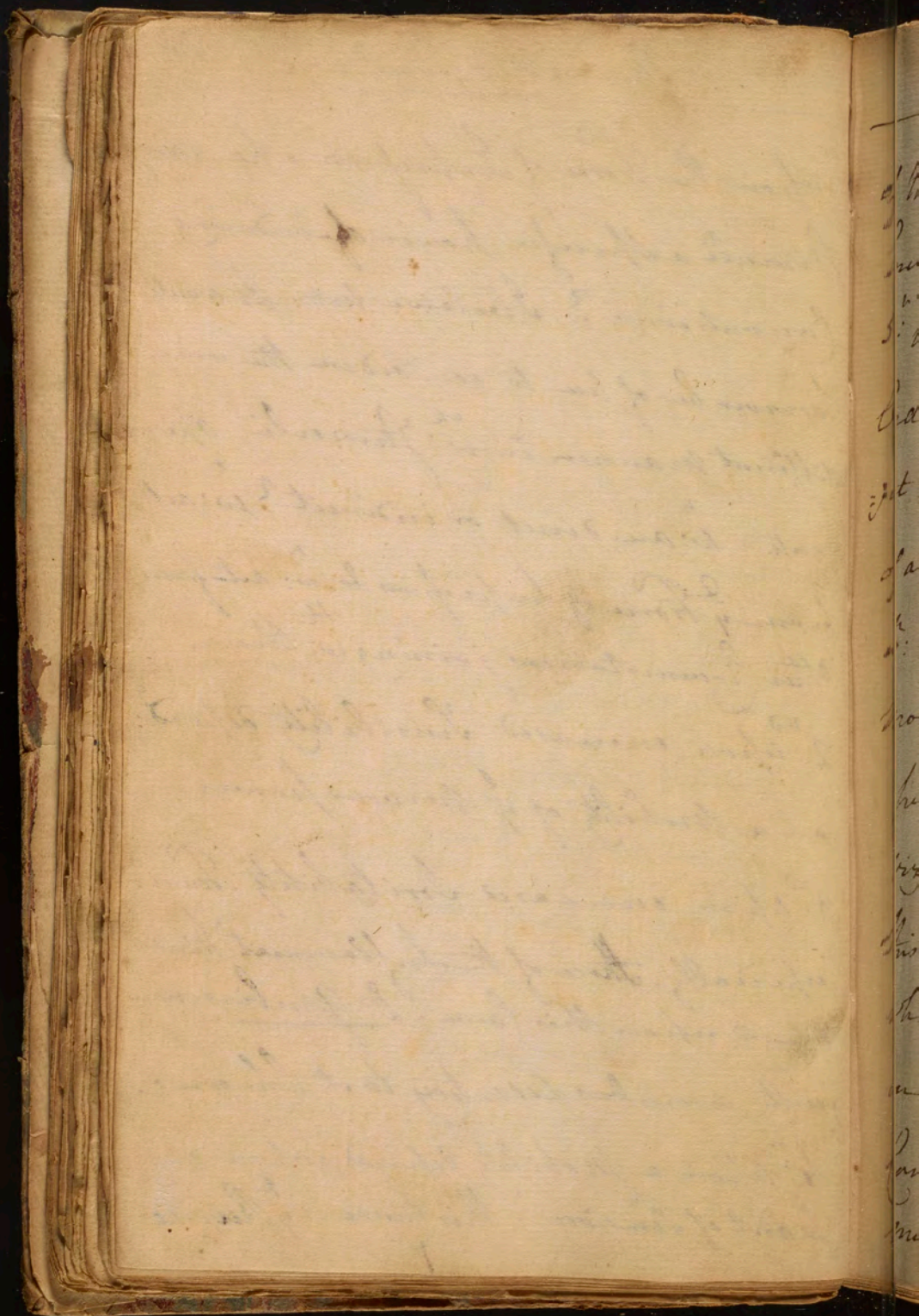
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1st upon the Force of Impression. have any stimuli a specific power of inducing Convulsions? I believe not. It would however be of use to consider the very different manner in w^{ch} stimuli op^{er}ate. w^h are direct or indirect? w^h act from y^e Force of Impression & w^h act from other Circumstances joining wth them.

2nd upon increased Sensibility depend^g on a Mobility of y^e Nervous power.

3rd upon increased Irritability. Power especially those of the Inflammat^y kind depend upon this Cause. Dr. Gaurius very justly ascribes Lientery to it likewise.

4th upon a Mobility depending upon a Want of Tension. This Cause is y^e Reverse



of the former, & is induced by a want of Energy in the Sensorium.

5.th Upon those causes ^{the} disturb [&] establish Order of our Actions. our System is Subject to Habits ^{the} determine [&] velocity of all our Motions. any Cause then ^{the} disturbs the Series or Train of our Motions may bring on Convulsion perhaps the first Cause we assigned viz the Force of Impression may act in this way? — we often see Persons who when ~~they~~ first learn to play on ^{the} [&] Green an Plate sized w.th Convulsions in their Fingers from moving them quicker th ordinary.

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The Defect of Motion may depend
on ^{the} following Causes.

1. Various Organic Affections of the
Muscles preventing their Contraction.
such as over Distention ^{of the} & fluids.

2.nd upon ^{the} Affections of ^{the} moving
Fibres alone or upon Atonia.

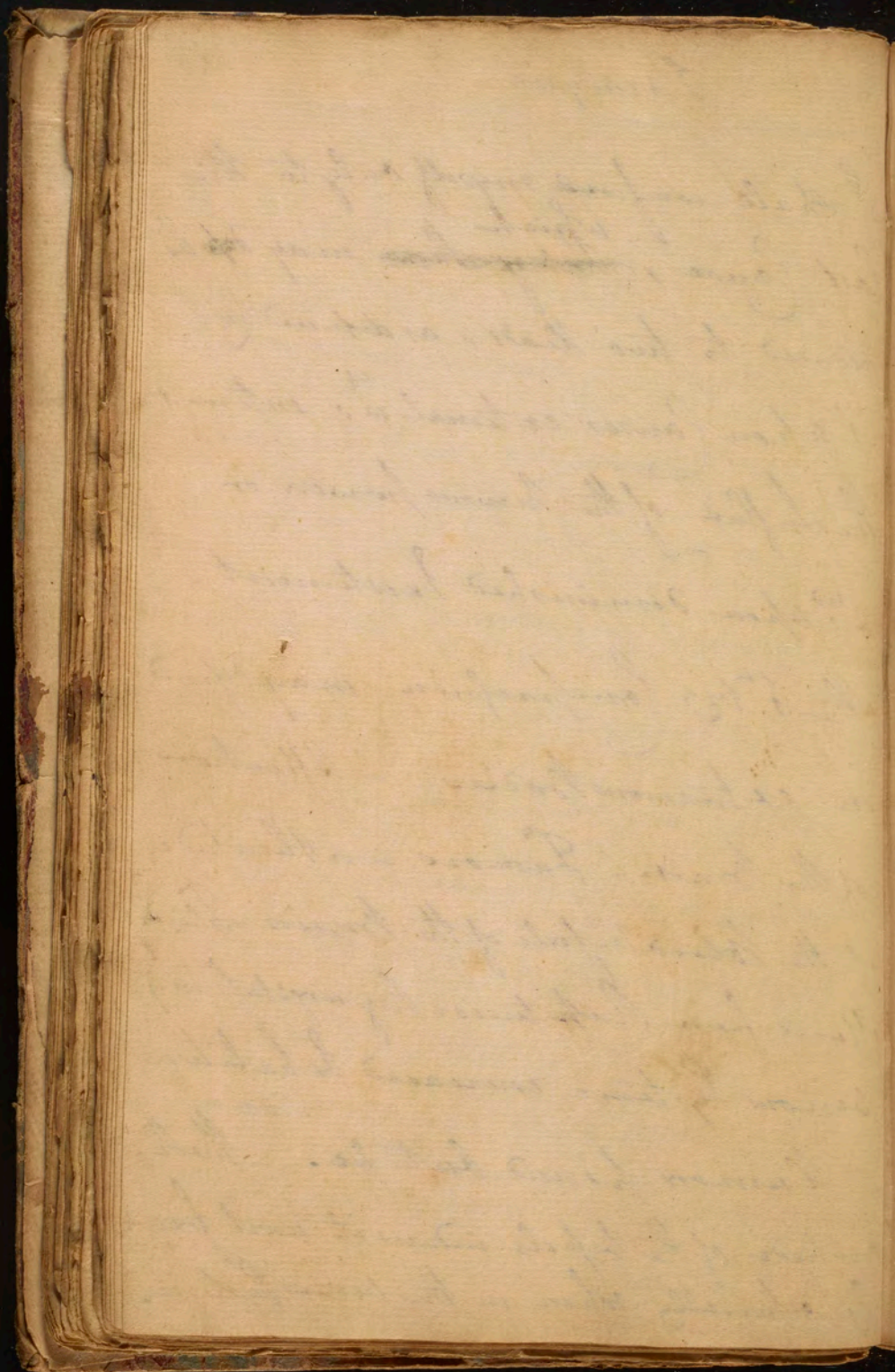
3.rd upon an Interruption of the Nervous
Influx from ^{the} Sensorium into the
Muscles. These two last are only
properly to be called Palsy. the first
Case may be called simple Atonia as
the Muscles & Sensorium are seldom
affected in it.

[Faint, illegible handwriting on the main page of an old manuscript. The text appears to be written in a cursive script, possibly from the 17th or 18th century. The page is aged and shows signs of wear, including discoloration and some staining.]

[Faint, illegible handwriting on the right-hand page of the manuscript, visible at the edge. The text continues from the previous page or is a separate entry.]

I shall confine myself only to the
 last Cause, ^{which} ~~which~~ may ~~be~~ be-
 reduced to two Heads, as depending
 1st upon Causes external w^{ch} interrupt
 the Influx of the nervous power or
 2nd upon diminished Excitement.

The 1st viz Compression may depend
 on extraneous Bodies - Affections
 of the Brain - Tumors - a Plenitude
 of the Blood vessels of the Brain - Fluids
 effused from Ruptures - Regurgitat^{ing}
 venous System - increased Exhalations
 - Humor p^{ro}und &c. &c. The
 multitude of the vessels induces it most frequ^{ent}
 ly especially when in the venous System.



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This Defect is sufficiently confirm.
Chorea in all its Degrees arises
from this Cause.

2 Diminished Excitement. It is hard to
tell when this is in Excess or Defect.
we are sure that Cold - Narcotics
& some Astringent - Depletion & all
act by inducing a diminished Exci-
tment or Atonia in the moving Fibres.

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

[Partial view of the adjacent page on the right, showing fragments of text and large Roman numerals.]
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VII

484

Of $\frac{20}{7}$ Symptoms of Respiration

We come now to treat of $\frac{20}{7}$ Symptoms
of Respiration, or of those Cases which
render it difficult. The Subject is very
extensive, & upon that Au: I have chose
to give you all the Cases in a Synop-
tical or Tabular Form.

Inspiratio fit difficilis

I. De vitio Aeris

- 1 nimis rari
- 2 nimis calidi

II. De Angustia viarum per quas Aër
intrare debet.

Angina varia Class: VII. G: 2 Sauvage

Orthopnea a deglutitis G: IX Sp: 9

———— a Bronchocele 10

———— variolosa 24

III. De vitio Thoracis

- 1 male conformatæ

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Respiratio fit difficilis 485

III. Ex vitio Thoracis

— Dyspnoea Rachitica G. VII. p. 10

— Asthma a Gibbo G. VIII. p. 9

2. Causae

A Luxatione } Dyspnoea traumatica 15

B Fractura

C Ankylosi } Orthopnoea traumatica 14

3. pro dolore motum negantis

Dyspnoea traumatica

Pleuritis.

Pleurodyne

IV. Ex vitio musculorum Inspirationi fa-
miliantium.

Dyspnoea traumatica 15

Orthopnoea traumatica 14

Dyspnoea Scorbutica 22.

Dyspnoea Galenica 17.

Dyspnoea ab Hydrocephalo 23

V. Ex vitio Pulmonis

1. Rigidi

24

1. *Chamaecrista*

2. *Chamaecrista*

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14. *Chamaecrista*

III
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VI

V. Iritio Pulmonis

1 Dyspnoea Rachitica 10.

2 Spasmo constricti

A Ab Aere frigido.

B Ab Aere inquinato 1

Asthma Metallicum 12

Orthopnoea a vaporibus 16

C Ab Irritabilitate

2 Asthma Idiopathicum

Asthma Humidum 1

—— Convulsivum 2.

b. Asthma Sympathicum

Asthma Hystericum 3.

Orthopnoea Hysterica

Asthma Hypochondriacum 4

—— Stomachicum 8.

—— Convulsivum Boerh. 19

Orthopnoea ab Antipathia 15

Asthma Arthriticum 5

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page]

V ex vitio Pulmonis

2 G. C. Asthma Lanthematicum 11

_____ Venereum 14

Orthopnea febrilis 20

_____ a Vermibus 17.

3 a Matrice Occlusi

A Sanguine

Peripneumonia.

~~Hæmoptoe~~

Asthma plethoricum 15

Orthopnea peripneumonica 1

_____ Pseudo-peripneumonica 21.

Asthma a Polypo Cordis 6.

Orthopnea Cardiacæ 2

B. Sero

Dyspnea pituitosa 1.

Asthma Catarrhicum 13.

Inspiratio fit difficilis. 488

V a vitio Pulmonis

B. Orthropnea ab Hydropneumonia 12.

C Mucos

— Asthma Catarrhale 16.

— Pneumodes 17.

D Aere

Dyspnoea a Pneumonia 12

E Pure

Orthropnea a Vomica 7.

Phthisis pulmonalis

F Calculis

Dyspnoea calculosa 3

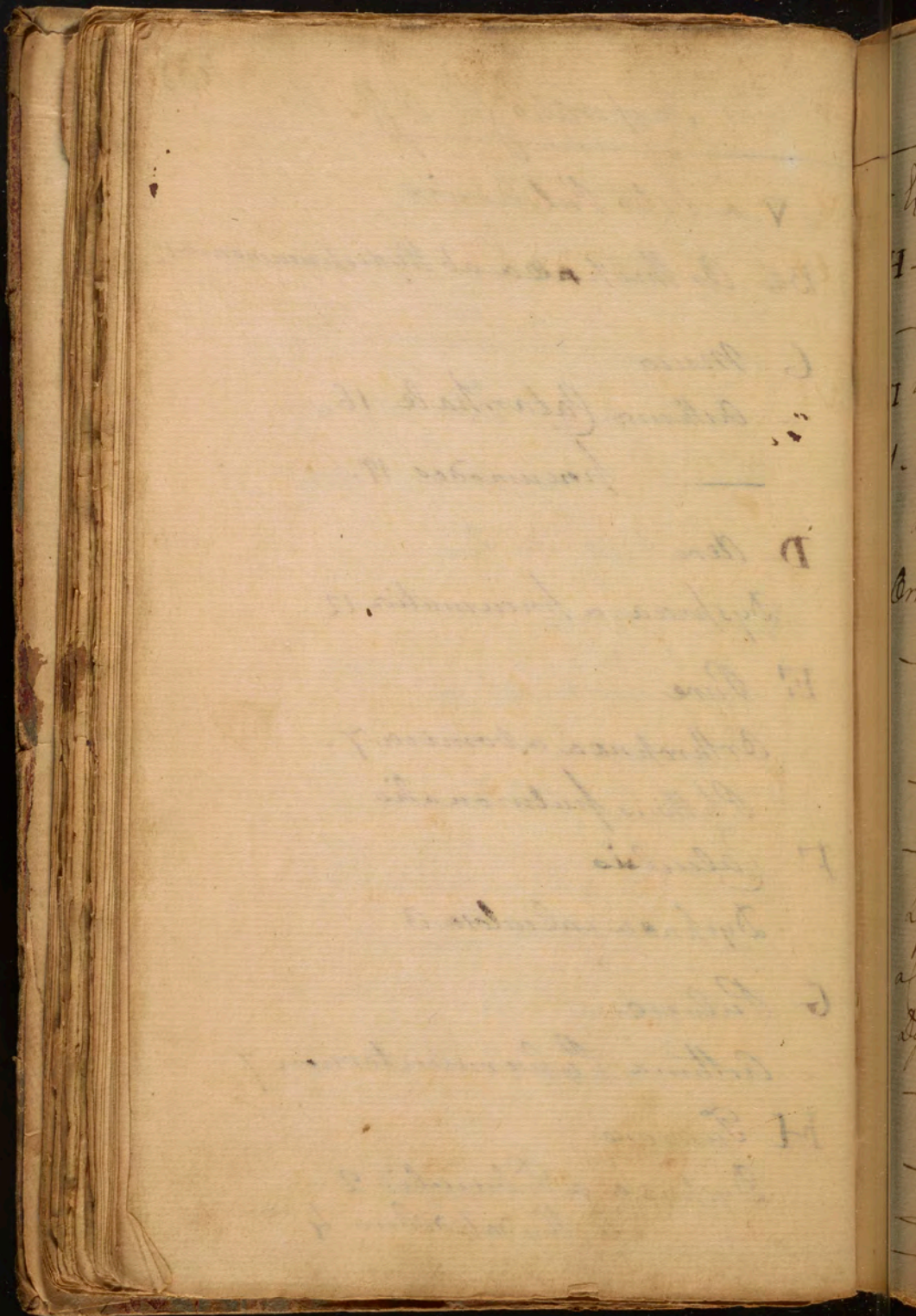
G Pulvere

— Asthma Pulverulentorum 7

H Tumore

Dyspnoea a Tuberculis 2

— ab Hydatidibus 4



Inspiratio fit difficilis 89

V Ex vitio Pulmonis

H - a Pleuromatibus 5

— a Vomica. 6

VI Ex Pulmone compressa

1. a Causis intra Thoracem

Dyspnoea a Corde 11.

Orthopnoea ab Anasarismate 8

— a Pinguedine 6

— a Lipomate 18

— a Hydrothorace 5

— ab Impiementate 13

Dyspnoea traumatica 15

2 a Causis in Abdomine existentibus

Dyspnoea a Pleuronia 7. or em? buck

— a Gravidiitate 8.

— a tympanitica 9

— a Stomacho 13.

— a Liene 14.

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Inspiratio fit difficilis 490

VI In Pulmone compressa.

2 a Gastrocele 18

Orthopnea Gastrocele 11

Asthma Hypochondriacum 18.

I In Aëre vitio. very few Diseases
arise from this source. I think Dr Cullen
has been too diffusive upon this subject.

II In Angustia viarum per quas Aer
intrare debet.

all the Diseases marked under this
Head are rather Symptoms of Diseases
than any thing else. they often occur in
cases where little Danger is to be apprehended.
Savvage has considered some of them as
Diseases of the Lungs especially the last,
but they depend upon nothing else

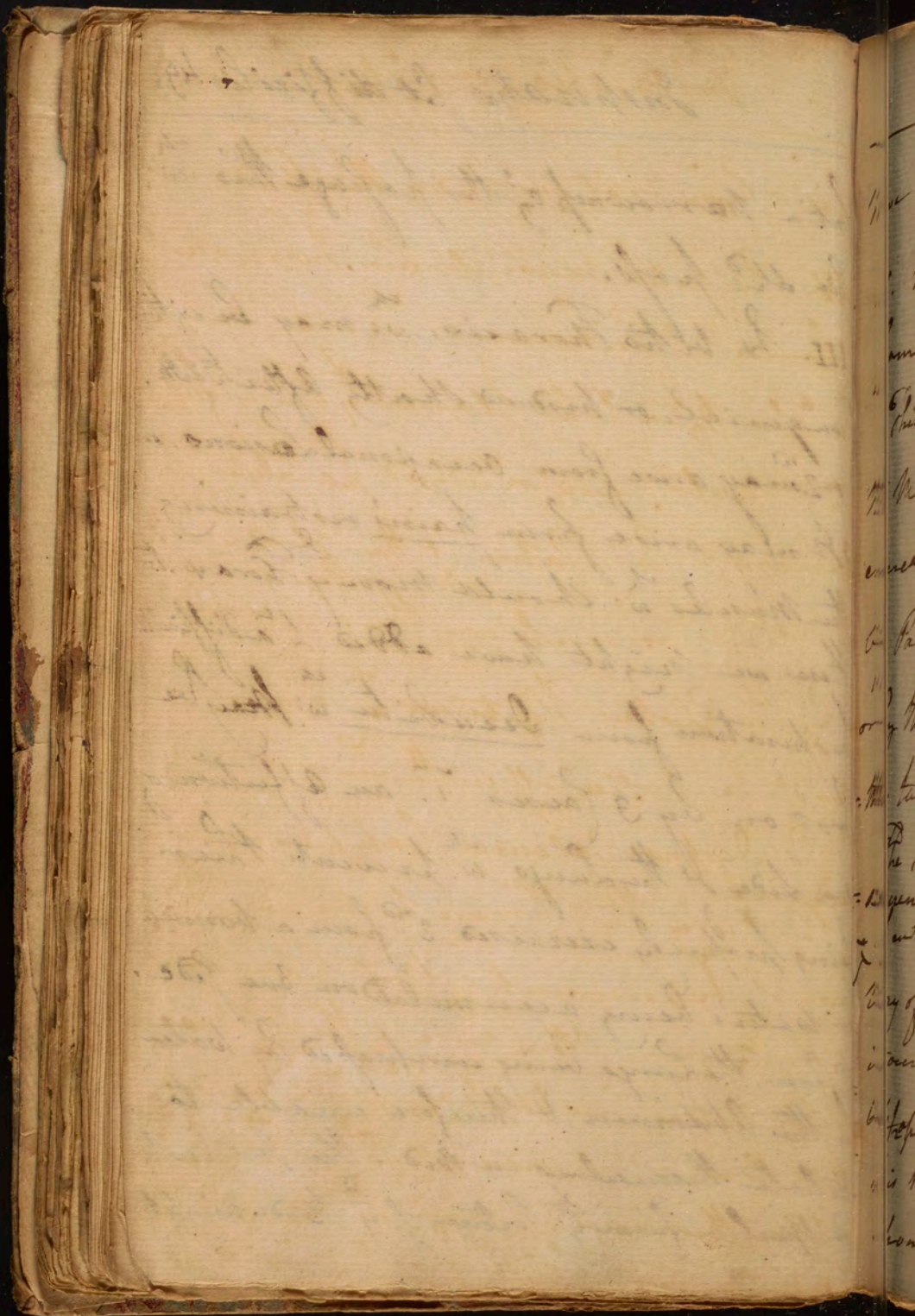
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Inspiratio sit difficilis 491

but a narrowness of the passage thro' w:
his sh^d pass.

III. & vitio Thoracis, w: may be either
1^o congenial, or produced shortly after Birth.
or 2^o may arise from occasional Lesions, or
3^o It may arise from pain restraining
the muscles w: should move y^e Thorax to
then we might have added 4^o a difficult
Inspiration from Decubitus w: may be
prov'd on by 3 Causes 1^o an Affection of
one Side of the Lungs w: prevents their
being properly exercised 2^o from a vomica
or water's being accumulated on one Side.
3^o from the Lungs being compras'd by water
in the Abdomen, & therefore unable to
dilate themselves in void. the Inspiratio
Difficilis from y^e Posture of y^e Body might



Inspiratio fit difficilis 492

have been bro't in under this Head.

IV. De vitio musculorum Inspirationis
sammillantium.

This often takes place in $\frac{2}{3}$ of Scurvy from
the Muscles being rendered paralytic by
increased Circulation of the Blood, or
by Pains resembling the Rheumatic,
or by the Globus Hystericus in several Cases.
I have notice of in the Scurvy.

The Dyspnoea Galenica happens in Con-
sequence of ~~cutting~~ ^{cutting} the Phrenic nerve in $\frac{2}{3}$
way of Experiment. But I have seen
it occur from Other Causes. The Dyspnoea
Apoplectica might have come under
this Head as depending in some Measure
upon this Cause.

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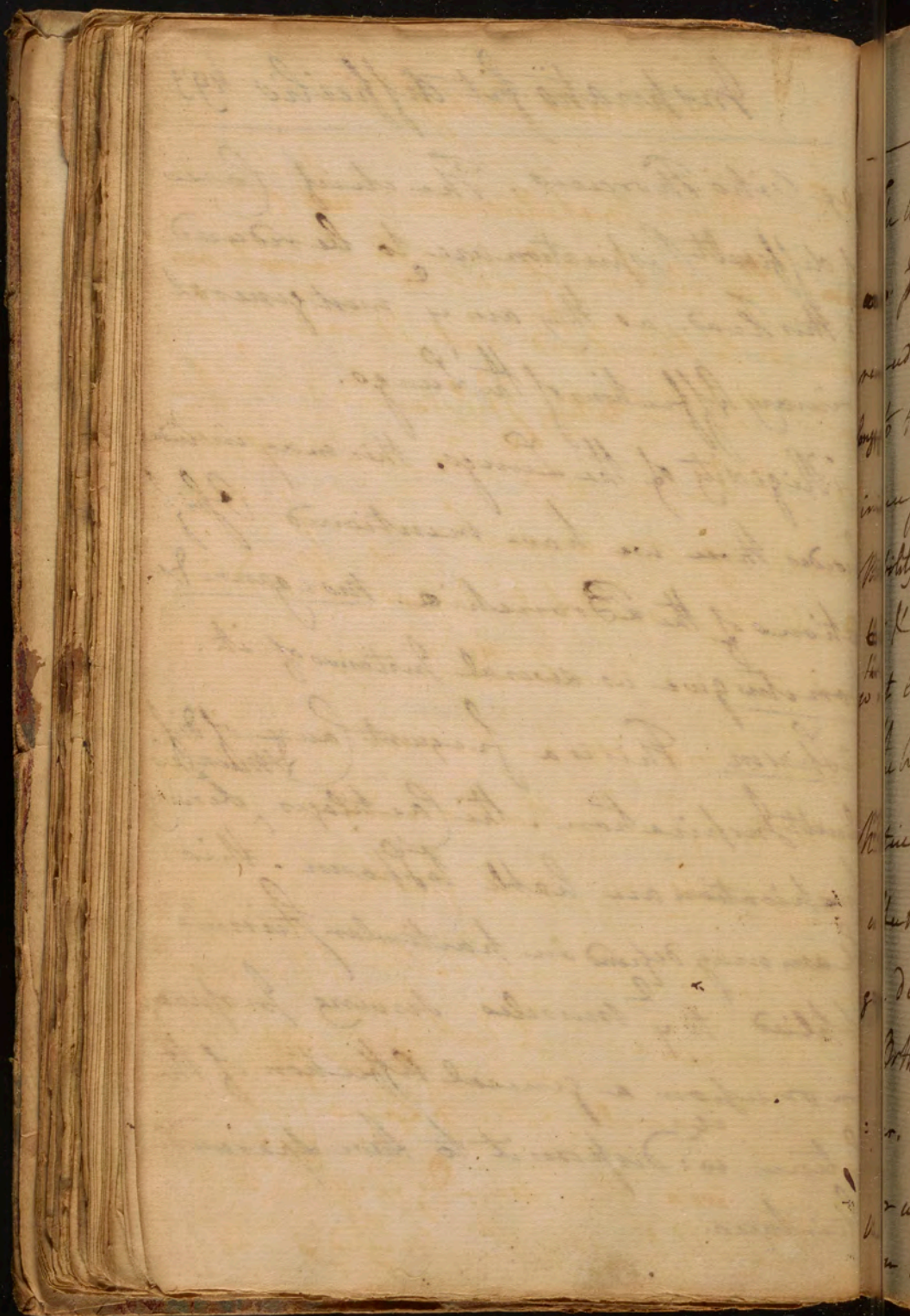
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Inspiratio fit difficilis 493

ex Vitio Thoracis. The chief Cases of difficult Respiration are to be reduced to this Head, as they are $\frac{2}{3}$ most general primary Affections of the Lungs.

1. Rigidity of the Lungs, this may include besides those we have mentioned Opisthotonos of the Bronchia. Morgagni & Boerhaave give us several Instances of it.

2. Spasm - This is a frequent Cause of difficult Inspiration. the Cartilages serving Inspiration are liable to Spasm. this Spasm may depend on particular Stimuli applied to $\frac{2}{3}$ muscles serving Inspiration or upon a general Affection of the Larynx w^{ch} disposes it to these spasmodic Strictures.



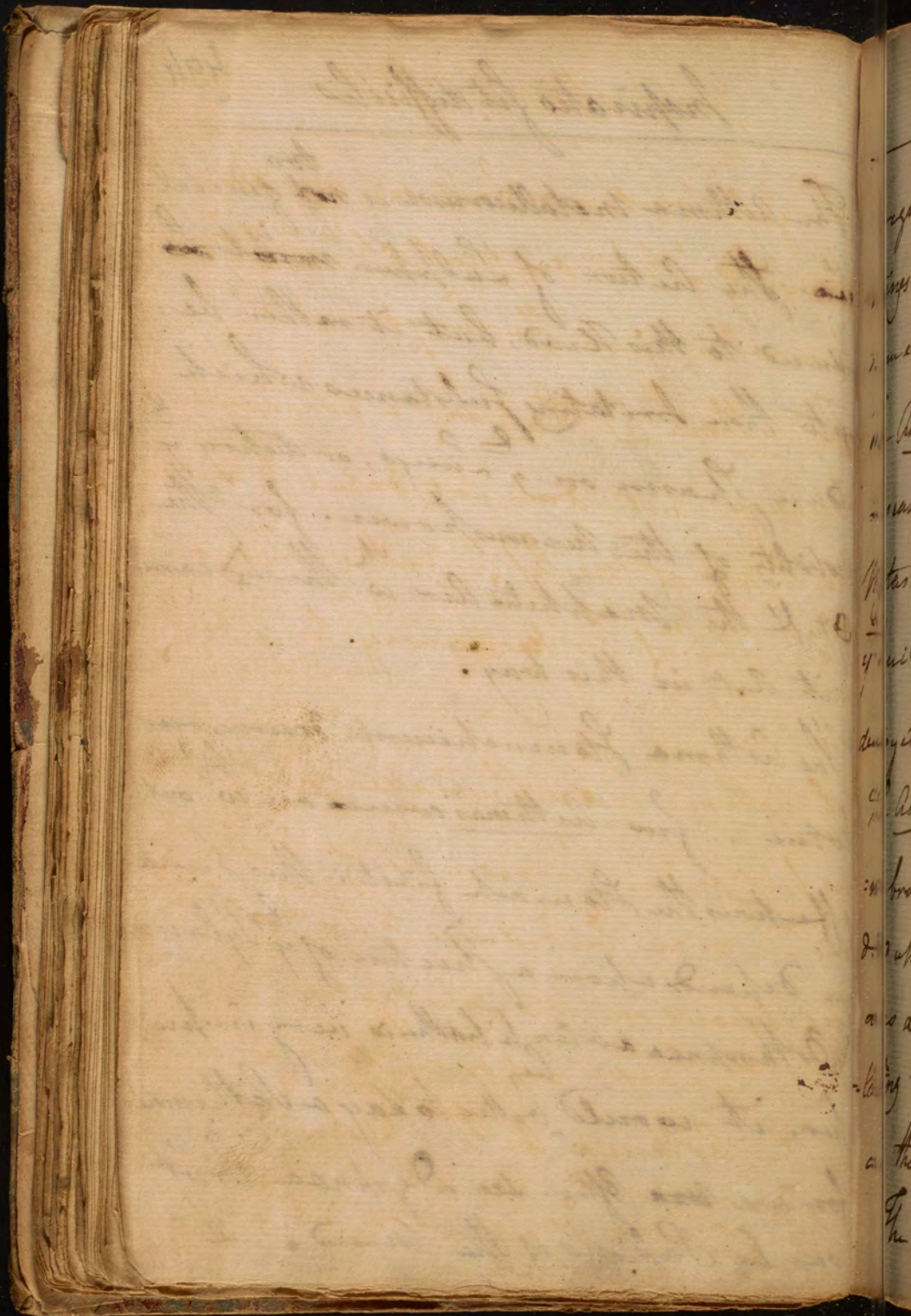
Inspiratio fit difficilis

494

The Asthma Metallorum is ^{too} general.
~~res.~~ The Action of Sulphur ^{is} ~~must be~~
reduced to this Head, but it rather be-
ongs to those Irritating substances which
induce Spasm on ^{the} Lungs, or destroy ^{the}
Mobility of the nervous power. for the
⊕ & the Mephitic Air w^{ch} the Δ carry
wth it act in this way. —

The Asthma Stomachicum deserves our
Notice. few Asthmata ^{the} come on wth out
affecting the Stomach first. This Genia
depends upon a Stricture of ^{the} Pylorus.

Orthopnea ab Anti pathia is very impro-
per. it would ^{be} better to say a Pathemata
for we ~~see~~ often see Dyspnea bro't
on by Passions of the Mind. all

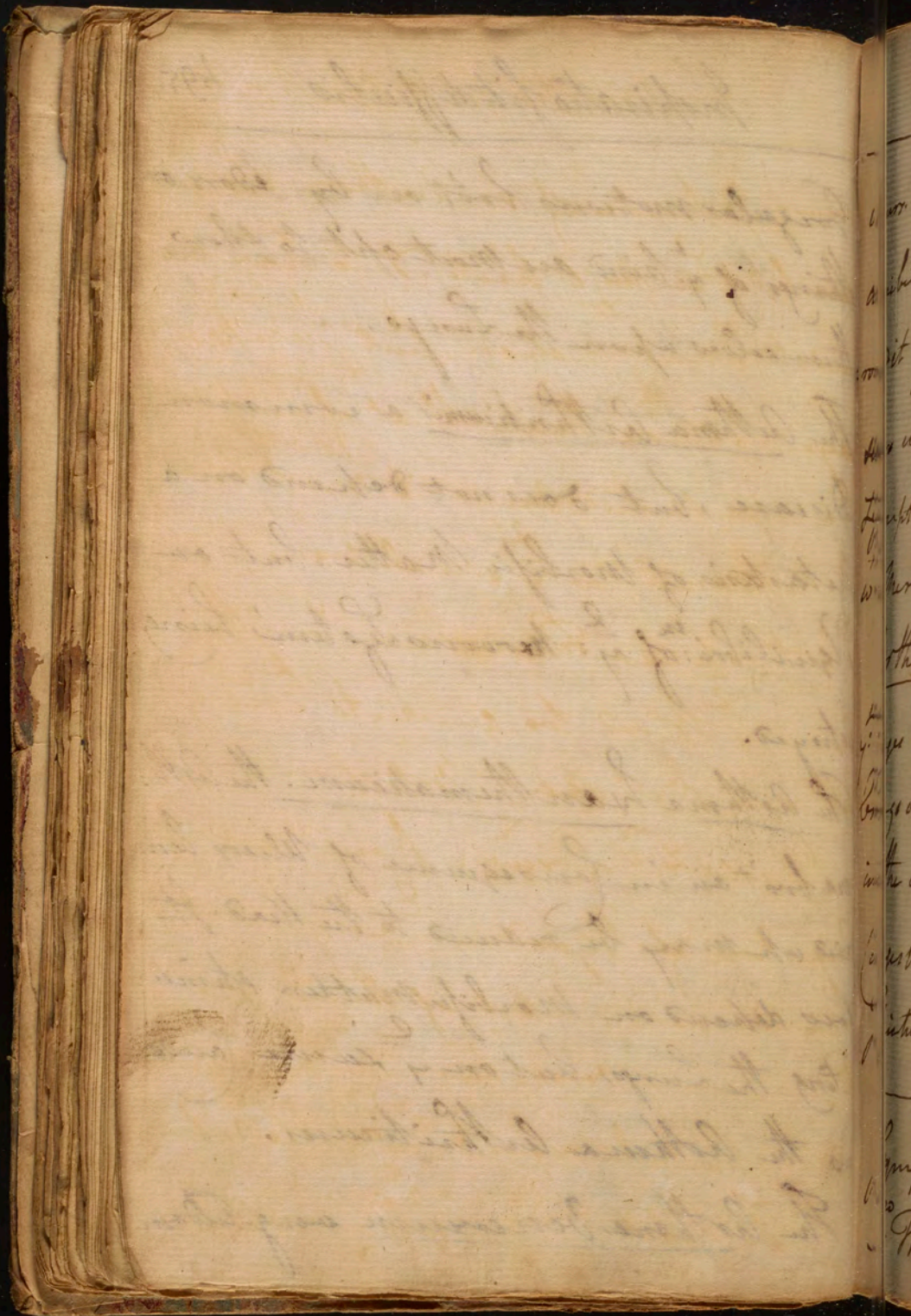


Irregular motions bro't on by Cough or
Things of γ : kind are most apt to show
themselves upon the Lungs.

The Arthma Arthriticum is a common
Disease, but does not depend on a
Metastasis of Morbific Matter, but on
 γ Equilibri^m: of γ : Nervous System's being
destroyed.

The Arthma Haemorrhagicum. The Arth-
ma bro't on in consequence of Ulcers being
dried up may be reduced to the Head. It
does depend on Morbific Matter stimu-
lating the Lungs, but on γ same Cause
as the Arthma Arthriticum.

The Arthma Venereum very seldom



Inspiratio sit difficilis 496

occurs. I know of no Author who has described it. Devaux pretends to have borrowed it from Boerhaave, but Junker says no more than that if such a Symptom should occur it must be cured wth Mercurials in ^{the} usual way.

Certhropsia Fabriciosa. Every thing ^{the} urges ^{the} blood too quickly to ^{the} Lungs brings on Dyspnoea. But it occurs too in the cold Pitt of Livers from (not a Congestion of blood in ^{the} Lungs) but a Sticture on ^{the} vessels of the Lungs.

_____ a vermiculus. This is evidently symptomatic & requires no Explanation.
3rd The Matter wth by ^{the} filling ^{the} Lungs

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Inspiratio fit difficilis 497

occasioning difficult Inspiration are very various.

Languinis. This may act either by being congested in its proper vessels or effused into the Bronchia. The first of these occurs oftener. all quickened Inspiration may be called difficult Inspiration, & generally arises from an excessive Quantity of Blood in the Lungs. The difficulty of Breathing in Fevers depends on this Cause from Blood being poured too plentifully into the Lungs.

- The Inflamⁿ: & Hemorrhagic Diathesis gives a particular Determination of Blood to the Lungs.

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Inspiratio fit difficilis 498

The Asthma Plethoricum attends generally
all plethoric Persons.

The Orthopnea Peripneumonica. is
nothing else but an improper species of
Catarrhus suffocativus.

The Orthopnea Pseudoperipneumonica
is $\frac{2}{y}$ Peripneumonia hætha of Sydenham
& Boerhaave. It is nothing but a
Catarrh or a Congestion of blood w:
is greater than $\frac{2}{y}$ Stimulus w: induces
it.

Dyspnœa & Calculus depend generally
upon Calcareous Earth, at least all $\frac{2}{y}$.
Stones I have examined are of this kind.

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The Dyspnoea a Pulvone. is a real Dis:
 ease. The Flax Dressers are most subject to
 it. It is somewhat surprising ^L y: Millers
 are not subject to it. perhaps it may
 be owing to y: Flour being less offensive
 to the Lungs. The Miller's Cough
 proverbial - owing to ^{old} Burdens &c. Hair Dressers
 who live among Flour
 not subject to it.

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500

Symptoms of the Heart's Action.

The Consideration of the Pulse naturally comprehends every thing relative to the Heart's Action.

I shall consider the Frequency of the Pulse, & confine myself to those which are most commonly marked. But here we must premise that $\frac{1}{2}$ same Causes always excite both ventricles of $\frac{1}{2}$ Heart at once, & $\frac{2}{2}$ the Action of $\frac{1}{2}$ Heart depends upon its Irritability. This Irritability may be considered as a *vis irritans* ^{on} as depending upon the Sensorium. I do not suppose the first can be independent of the last as DeHaller has done, but shall assume it at present meaning by it those Causes ^{ch} w. act on $\frac{1}{2}$ Heart

itself, or ^{directly} upon the Sensorium first & indirectly upon the Heart.

- The Causes acting upon ^{the} Heart directly are:
1. an Influx of venous Blood.
 2. more or less evacuation of ^{the} ven. Blood.
 3. The different states of Irritability.
 4. Unusual stimuli applied directly to the Heart itself.

The Causes acting on ^{the} Sensorium may be reduced to ^{the} following

1. direct & 2. Indirect stimuli.

1. we shall consider the Causes ^{which} act directly on ^{the} Heart

1. what ever increases the Influx of the venous Blood beyond ^{the} is ordinary

3. 2. 1.

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will increase the Pulse. Muscular Motion will produce this Effect as also a frequent Respiration ^{is} $\frac{2}{3}$ most common Cause of a quick Pulse. If the size of $\frac{2}{3}$ sanguifer. System is ~~not~~ over-proportioned to $\frac{2}{3}$ Heart's magnitude a quick Pulse will be produced. This is $\frac{2}{3}$ Case ~~the~~ in Infants hence $\frac{2}{3}$ Frequency of $\frac{2}{3}$ Pulse.

2 Imperfect evacuation of $\frac{2}{3}$ Heart's ventricles will produce a Frequency of Pulse, as $\frac{2}{3}$ Heart's Contraction always continues the same. This Imperfect evacuation arises from clausures & a weakness of $\frac{2}{3}$ ventricles of $\frac{2}{3}$ Heart. This occurs

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in all Cases of great Debility as in Delirium
Animi, or in Dying Persons. Hence
we always find a frequent pulse just
before Death, unless from some Cause
the Sensibility of the Heart has been
destroyed. or it may arise 2^{ndly} from
a Resistance in the Blood: vessels de-
pendent on Rheumism Polypus Opifi-
cations & spasmodic Affections of the
Whole Arterial System. the Pulmon^y.
Artery is affected by every thing w^h renders
Respiration quick or difficult, so that y^e
Blood Course is more apt to be quickened
in the Lungs than in y^e ~~the~~ Aortic
System.
3 Increased Irritability may

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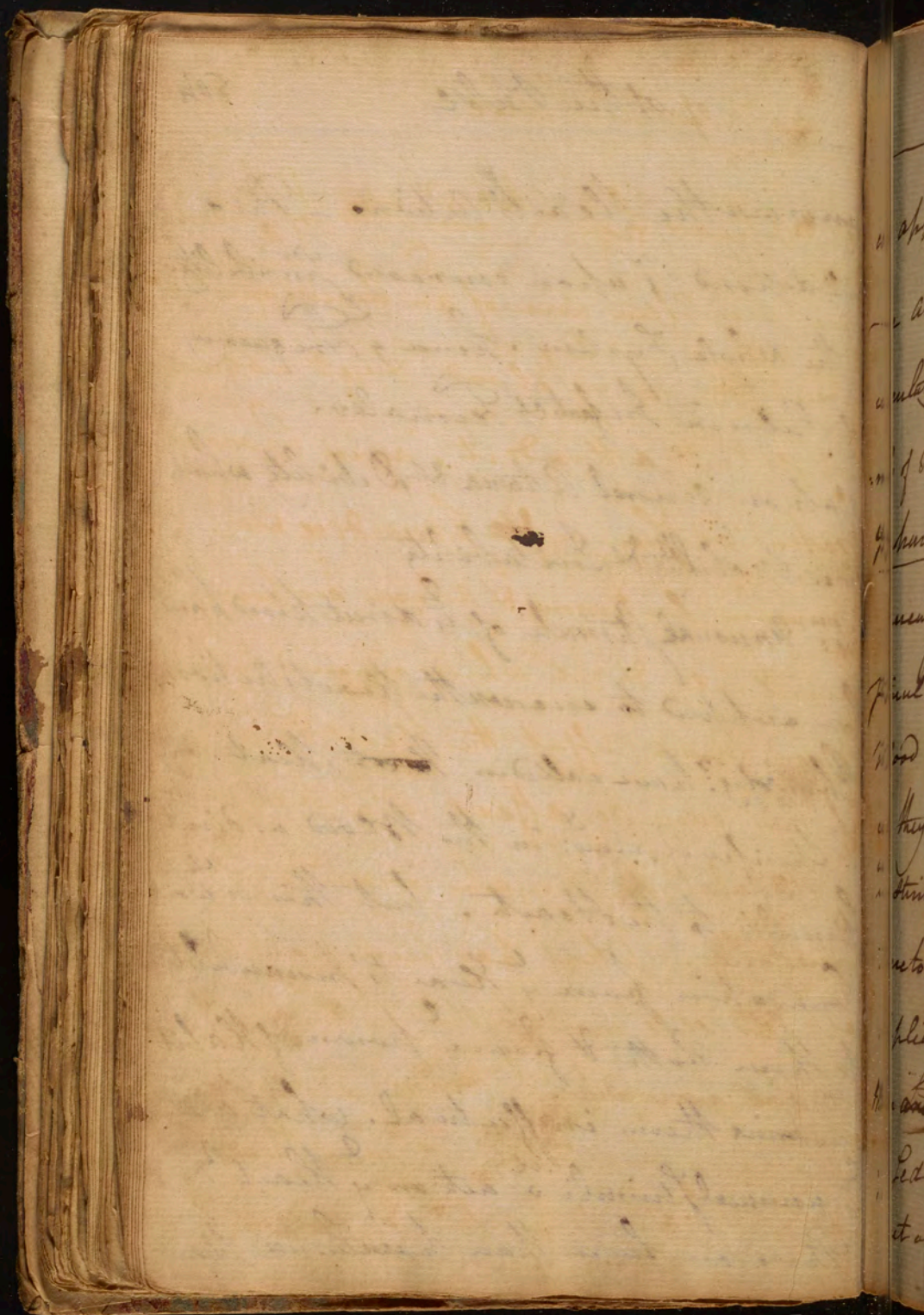
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increase the Heart's Action. - This
will depend ⁱⁿ upon increased Sensibility
in the whole System. Hence ^{the} Frequency
of Pulse in Infants & Females.

2^d upon general Asthenia & Debility which
gives Mobility & Irritability

3^d Unusual stimuli of ^{the} direct kind have
been supposed to increase the Heart's Action.

Physicists have called in Heat, Heat, or
a Specific Arimo: in the Blood as direct
stimuli to the Heart. But this is wthout
Foundation from ^{the} Heart's Insensibility
to them both, & from ^{the} power of Habit
rendering them ineffectual. What are
^{the} unusual stimuli w^{ch} act on ^{the} Heart?
These are fewer than have been supposed,



as appears from Dr. Smith's Experiments.
 - we are often sure of an luxuriant
 circulating in $\frac{1}{4}$ Blood, & yet no quick-
 ness of Pulse attends it, as in Cases of
Trepania Lunacy &c Jaundice &c.

Mercury Antimony & Arsenic are powerful
 Stimulants, & yet when received in $\frac{1}{4}$
 Blood never affect the Heart directly.
 if they ever do affect it, it is indirectly
 by stimulating the stomach or some of $\frac{1}{4}$
 Viscerous. What has been said here
 applies still more to the Arteries. if
 there ~~are~~ ~~any~~ direct stimuli it must be
 $\frac{1}{4}$ Sedative Impressions but even these
 act on $\frac{1}{4}$ Sensorium first & indirectly

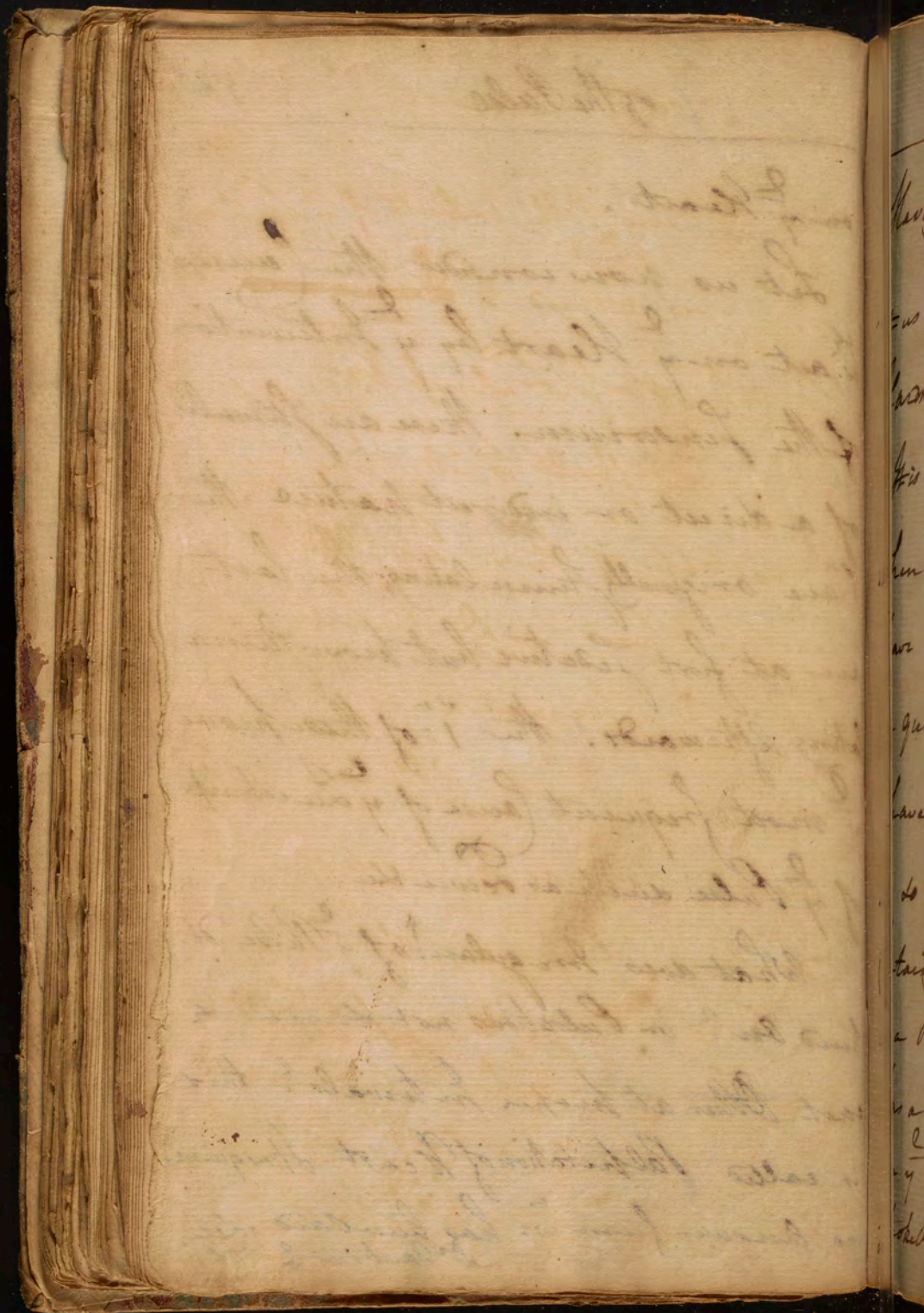
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on $\frac{2}{y}$ Heart.

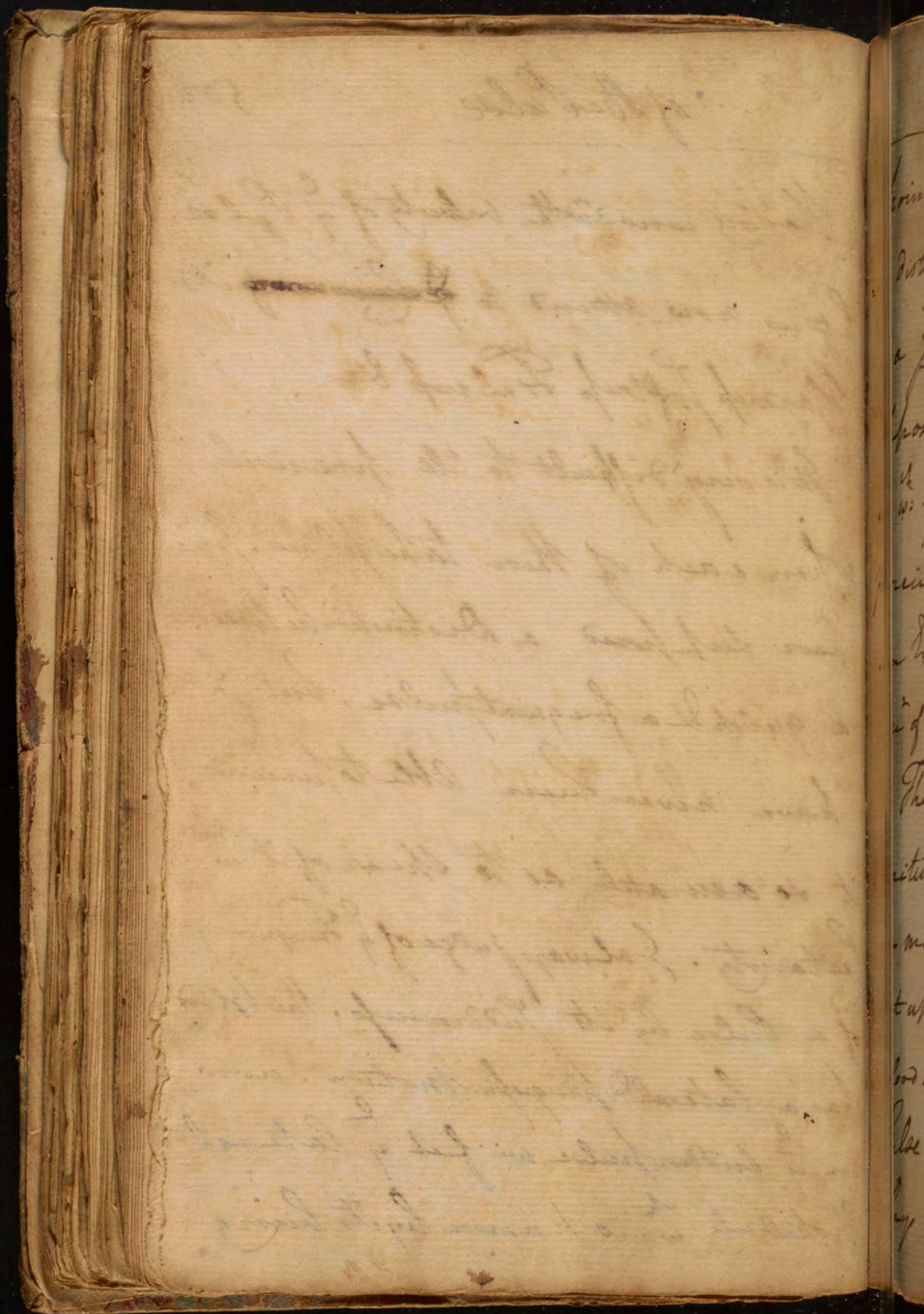
Let us now consider the Causes th w^h act on $\frac{2}{y}$ Heart by $\frac{2}{y}$ Intervention of the Sensorium. These are Stimuli of a direct or indirect nature. the ^{1st} are originally stimulating; the last are at first sedative but prove stimulating afterwards. the ^{1st} of these prove $\frac{2}{y}$ most frequent Cause of $\frac{2}{y}$ quickness of $\frac{2}{y}$ Pulse such as Fever &c.

What does Irregulari^{ty} of $\frac{2}{y}$ Pulse de-
pend on? on Pulsations not succeeding
each Other at proper Intervals? this
is called Palpitation of Heart. It requires
no answer from w^h has been said. See
De Gambius § 777.



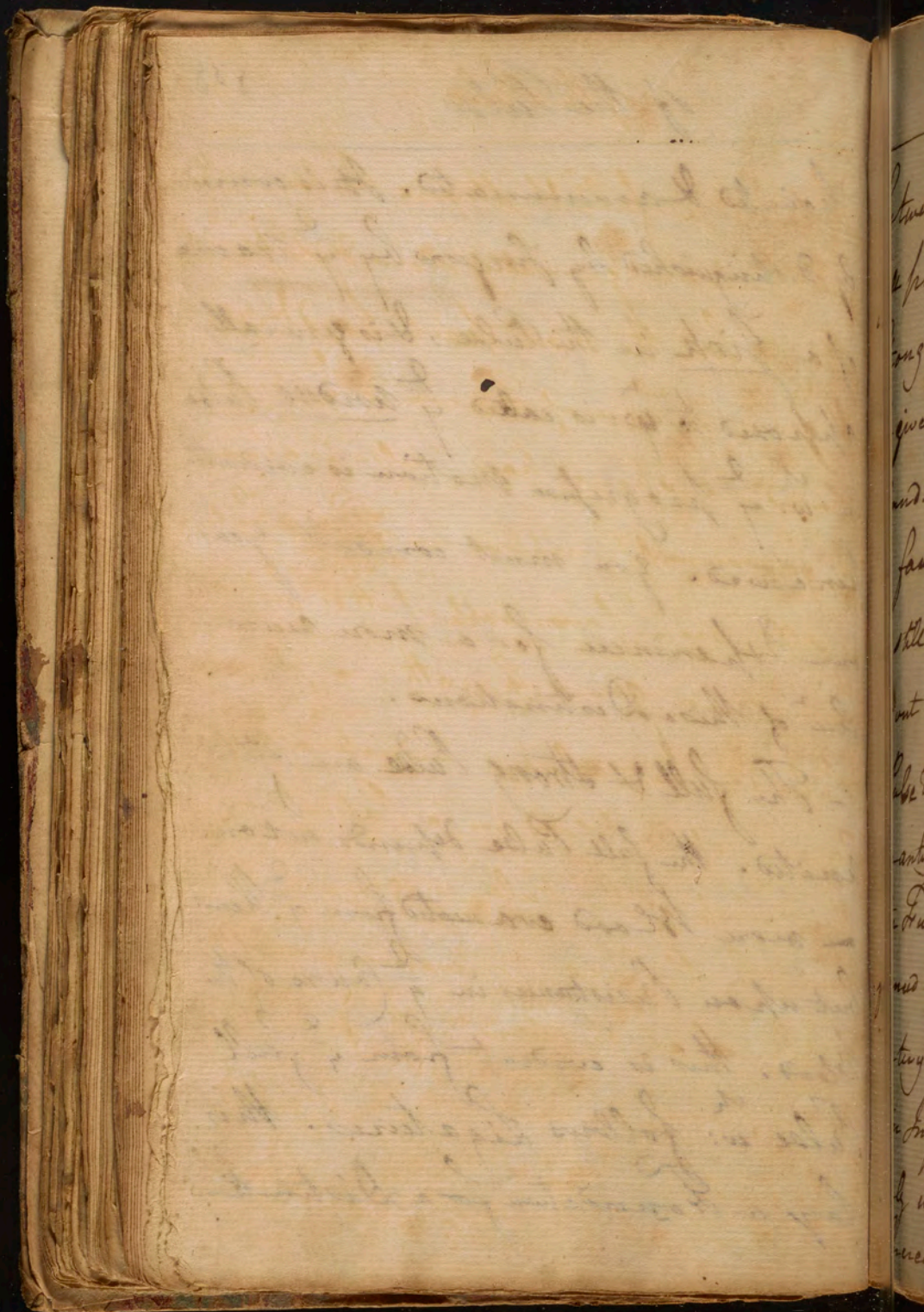
Having considered the velocity of $\frac{1}{4}$ Pulse
let us now attend to ~~the~~ its
Harmon Softness Dulness &c

It is very difficult to tell precisely
when each of these take place. some
have supposed a distinction between
a quick & a frequent pulse, but I
have never been able to perceive
it so accurately as to speak of it w:
Certainty. I always judge of $\frac{1}{4}$ Frequency
of a Pulse by its suddenness. the blood
has a lateral progressive motion. now
in $\frac{1}{4}$ sudden pulse we feel $\frac{1}{4}$ lateral
shock only w: is known by its being



pointed & acuminate. It is commonly distinguished by Surgeons by $\frac{2}{y}$ name of a Link in the Pulse, & is generally opposed to $\frac{1}{w}$: is called $\frac{2}{y}$ undore Pulse in $\frac{1}{w}$: $\frac{2}{y}$ progressive motion is evidently perceived. you must consult your own Experience for a more accurate $\frac{1}{w}$ of these Distinctions.

- The full & strong Pulse are often united. the full Pulse depends not on more Blood evacuated from $\frac{2}{y}$ Heart but upon Resistance in $\frac{2}{y}$ Course of the Blood. this is evident from $\frac{2}{y}$ full Pulse $\frac{1}{w}$ follows Ligatures. this lays a Foundation for a Distinction



between a full & strong Pulse. the full pulse is generally slow & soft. the strong for the most part hard & quick, & gives a sense of Tension to ^e Physicians Hand. a strong hard pulse is always a favourable Symptom in Fevers but it is still more favourable if it is full only th w^out any great Length. a full ~~full~~

Pulse does not always indicate a great Quantity of the Blood in a Patient as the Fullness of the Pulse is greatly influenced by the Size, Situation &c of the Artery ~~of~~ at the Wrist. the full Pulse in Inflam^y. Tumors likewise depends only upon ^a Resistance & not upon an Increase of the Quantity of ^e Blood or

[The text in this block is extremely faint and illegible, appearing to be a list or a series of entries.]

of the Heart's Force.

The Hardness & Softness of $\frac{1}{2}$ Pulse depends upon $\frac{1}{2}$ Muscular Fibres of $\frac{1}{2}$ Arteries themselves. the first is owing to an Excess of Tension in $\frac{1}{2}$ Arteries. the last to a want of it. It is the greatest desideratum in Medicine to know when $\frac{1}{2}$ Pulse is hard & soft & w: are all the intermedi: ^{te} Degrees between a hard & soft Pulse. I conclude then that a 10,000 Circumstances vary the Pulse, & that nothing is more difficult than ^{to} form a regular Judgement of Diseases from it. I

The Court of Sessions of the County of Middlesex
do hereby certify that the within and foregoing
is a true and correct copy of the original
as the same appears by the records of the Court
and is signed by the Clerk of the Court
in witness whereof he has hereunto set his hand
and the seal of the Court at London this 10th day
of March 1840

think the different states of Equality & Inequality of the Pulse w^d indicate the state of the system much better than the Frequency of the Pulse. here I must add that I have never observed the nice states of the Pulse Lolano takes notice off, or if I have by accident discovered any of them I have never observed the critical Discharges follow them that Lolano takes off. perhaps this may be entirely owing to our Northern Climate in w^{ch} Fevers & other Diseases observe less regular periods than they do in warm climates.

of the Bible

The first thing I should mention is that
the Bible is a book of many parts.
It is divided into two main sections:
the Old Testament and the New Testament.
The Old Testament contains the
history of the Jewish people and
the laws given to them by God.
The New Testament contains the
teachings of Jesus Christ and
the lives of his apostles.
The Bible is a book that has
been read and studied for
thousands of years. It is a
book that has inspired many
people to live better lives and
to love God and their neighbors.
The Bible is a book that is
full of wisdom and truth. It is
a book that is worth reading
and studying every day.

Altho' I said before γ : γ Consideration
 of remote Causes would come under
 γ Methodus Medendi, yet I think it
 will be of use to treat of a few of them
 in this place. The subject is very extensive
 — but I shall confine myself only
 to Air & Diet.

1: We shall treat of γ Sensible Qua-
 lities of the Air.

2: We shall treat of γ Properties of
 γ Air by w: I mean its Density, elas-
 ticity &c.

3: We shall take notice of γ Air as
 impregnated w: foreign Bodies.

1: Heat & Cold are very extensive in

of ~~Heat~~ Heat & Cold 513

Their Operation, and act differently in different times even in the same Degrees.

Their Action is diversified ^{1^o} by their Degree of Intensity as expressed by $\frac{2}{y}$ Thermometre in as far as the body is considered as inanimate, or as a common Mixture. there are ^{2^o} $\frac{2}{y}$ Absolute Effects of Heat & Cold. But ^{3^o} they both operate differently on an Animal Body viz Relatively. i.e. their Effects are proportioned to $\frac{2}{y}$ generating power of Heat in the System. ^{4^o} Degree of Heat gives the Body its uniform natural Temperature, or neither increases or decreases it? in 62^o in this Climate. The Body always

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of Heat & Cold

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remains at 98° in this Temperature.
any thing beyond this encreasing Heat
of $\frac{2}{3}$ body. any thing below 62° lessens
the Heat of the body. This may be very
different in warm climates, but we
have no experiments to determine this.

3^d The Effects of Heat & Cold are diversified
as acting on sentient Bodies, & hence
the Perception of them both are diversified
by the states of the sentient Nerves.

4th But all we have said concerning $\frac{2}{3}$
Effects of Cold will be diversified by their
acting differently on the Solids or Liquids.

5th They will all be diversified by $\frac{2}{3}$ power
of the System to resist or receive them

(a) Heat beyond ordinary Heat of
the Body acts as a stimulating In-
flaming Impression, bringing on
Blisters &c. if it should ever arrive
at 150: the Serum w: be in Danger of
being coagulated. —

of Heat Absolutely considered.

respective Effects. —

we shall now speak in particular
of the Effects of Heat &

1: we shall speak of its Absolute Effects
upon the body. I formerly supposed

there was a subtle Fluid in $\frac{2}{y}$ Nerves

$\frac{1}{u}$ w: was under the Influence of Heat &

Cold. this Fluid is a portion of in-

animate matter. Heat therefore acts upon

it & gives it greater Elasticity &

Rarity $\frac{1}{u}$ w: induces Mobility in

general or Sensibility & Irritability as

far as it depends on Sensibility. (a)

2: Absolute Heat gives Expansion to $\frac{2}{y}$ simple

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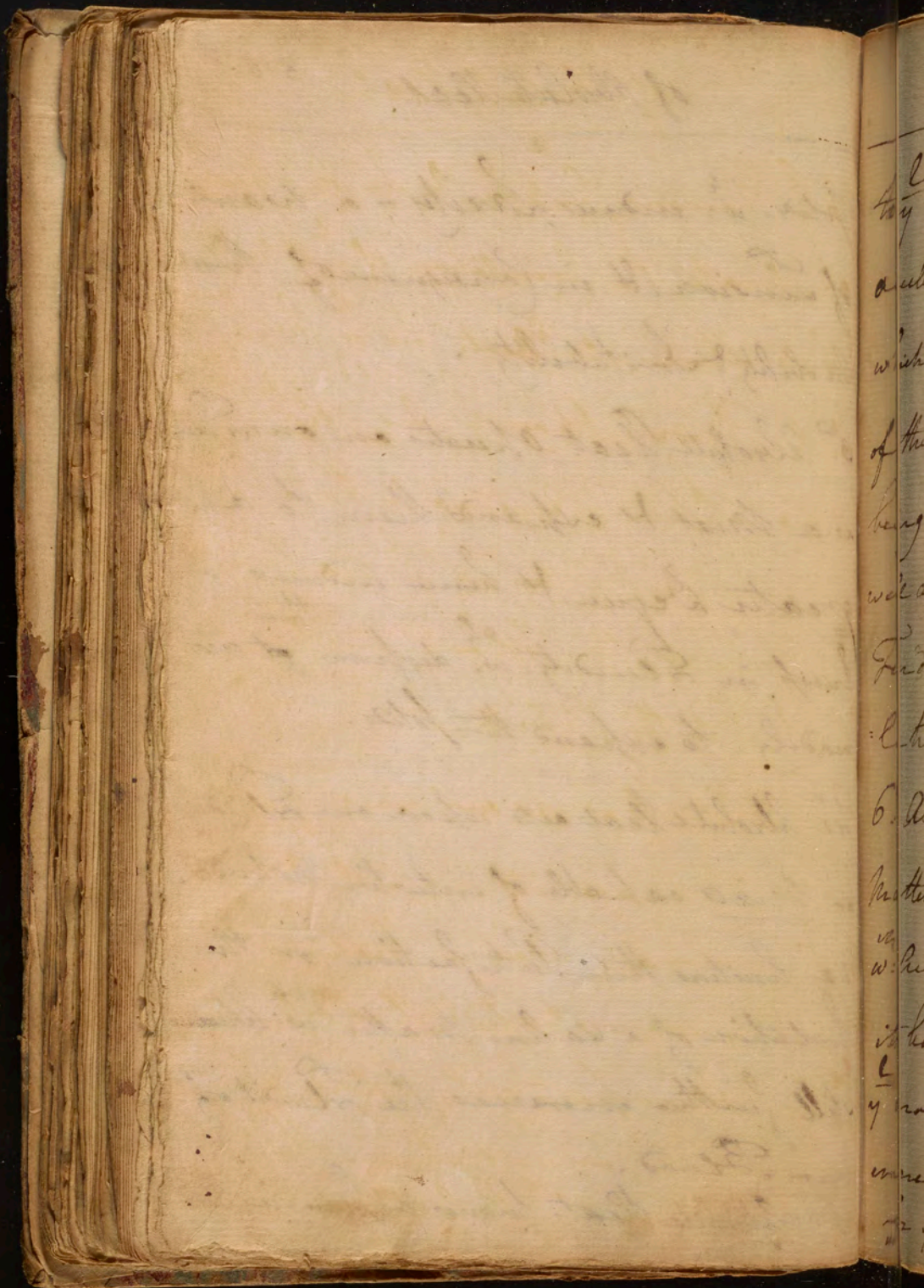
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Solids, w^{ch} induces Laxity - a want of Tension, & in consequence of their Mobility & Irritability.

3rd Absolute Heat operates on our Solids as a Mist & expands them to a greater Degree, & hence induces an Excess in Fluidity, w^{ch} disposes ^{them} ~~it~~ more readily to expand the Solids.

4th Absolute Heat acts upon our Solids as Mists capable of intestine Motion. i.e. hastens their Putrefaction, or the Evolution of a saline Matter w^{ch} likewise still further increases the Fluidity of our Blood.

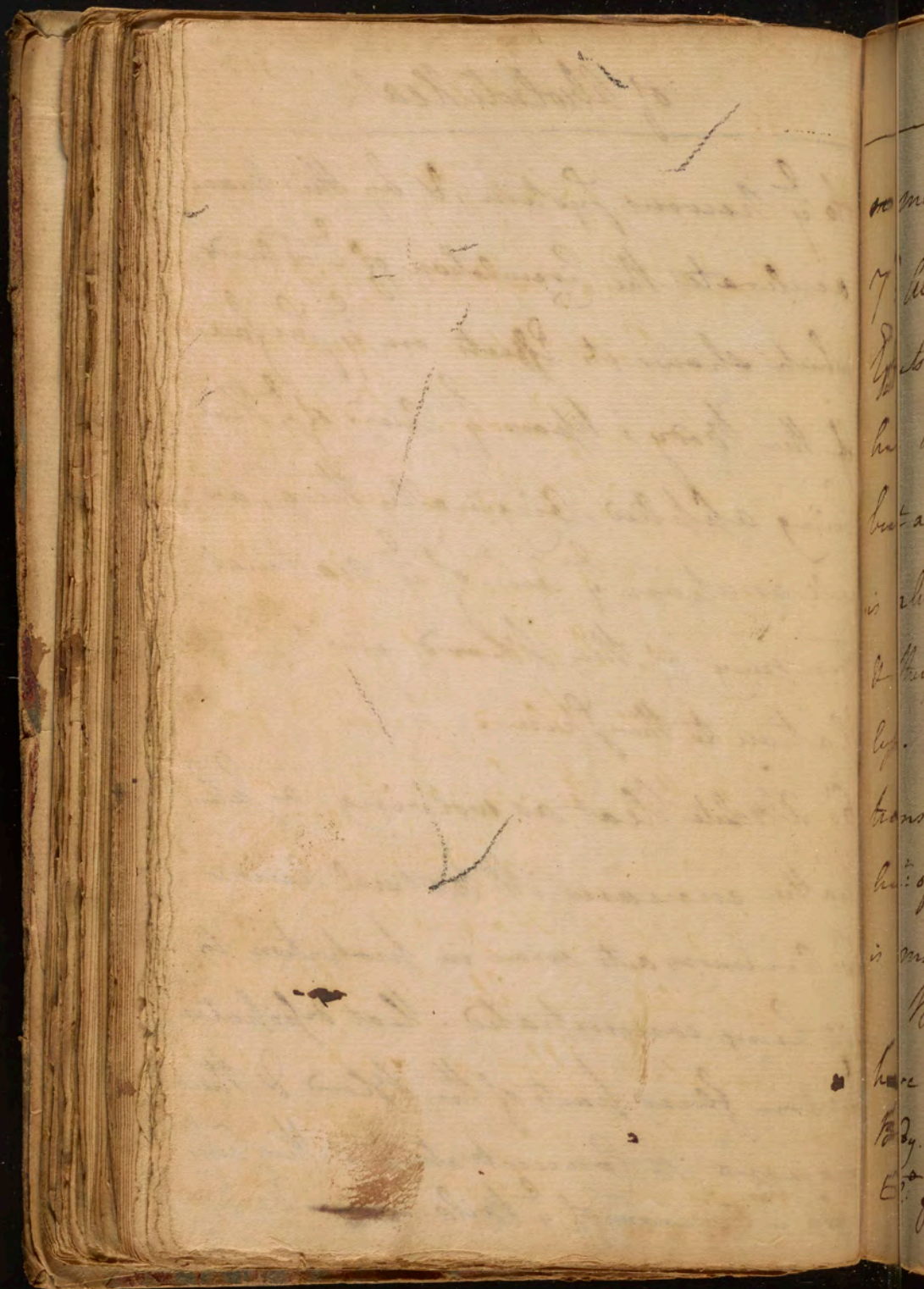
5th Absolute Heat proves a Stimulus



of Absolute Heat 517

to $\frac{1}{2}$ nervous System, & by this means
accelerate the Circulation of $\frac{1}{2}$ Fluids,
which shows its Effects on $\frac{1}{2}$ Surface
of the Body, Upon $\frac{1}{2}$ Air: of $\frac{1}{2}$ Heat
being applied Originally there, as
well as upon $\frac{1}{2}$ Air: of $\frac{1}{2}$ natural
Tendency of the Blood into Circu-
lation to the Skin.

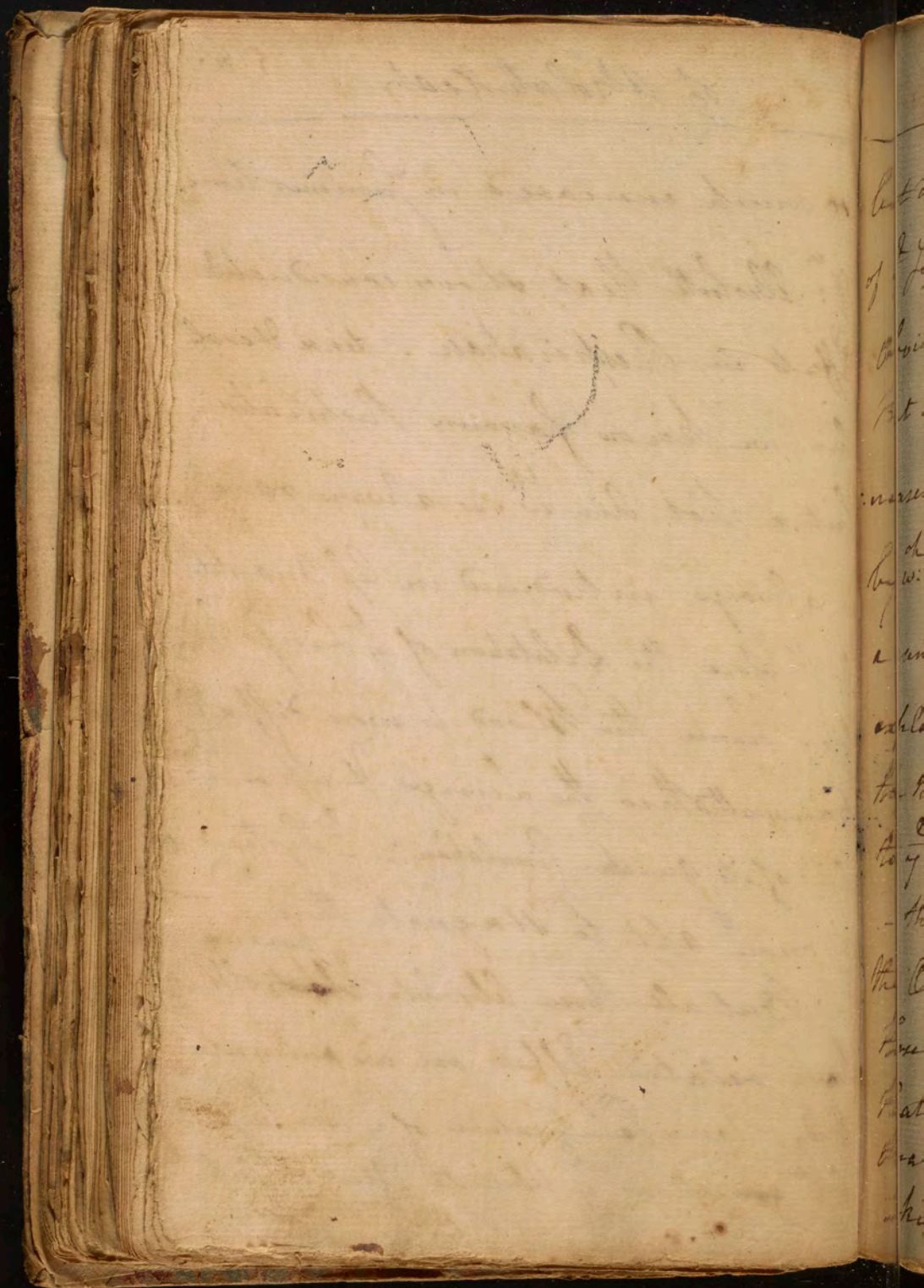
6.th Absolute Heat as involving a saline
Matter increases its natural Acrimony
w: Acrimony acts more in proportion to
its being concentrated. Heat dissipates
 $\frac{1}{2}$ more fluid parts of the Blood & thus
increases its Concentration. This Air:
for $\frac{1}{2}$ Acrimony of $\frac{1}{2}$ Bile. ~~being~~ ^{being}



so much increased in summer time.

7^m: Absolute Heat shows considerable Effects in Respiration. dense & cool air we know favours Respiration, but a hot air ^{is} is always rare is always introduced in less Quantity & therefore the Dilatation of $\frac{1}{2}$ Lung volume less. hence the Blood is more difficultly transmitted thro the Lungs, & upon $\frac{1}{2}$ of its quicker Circulation in $\frac{1}{2}$ System it is more apt to stagnate there.

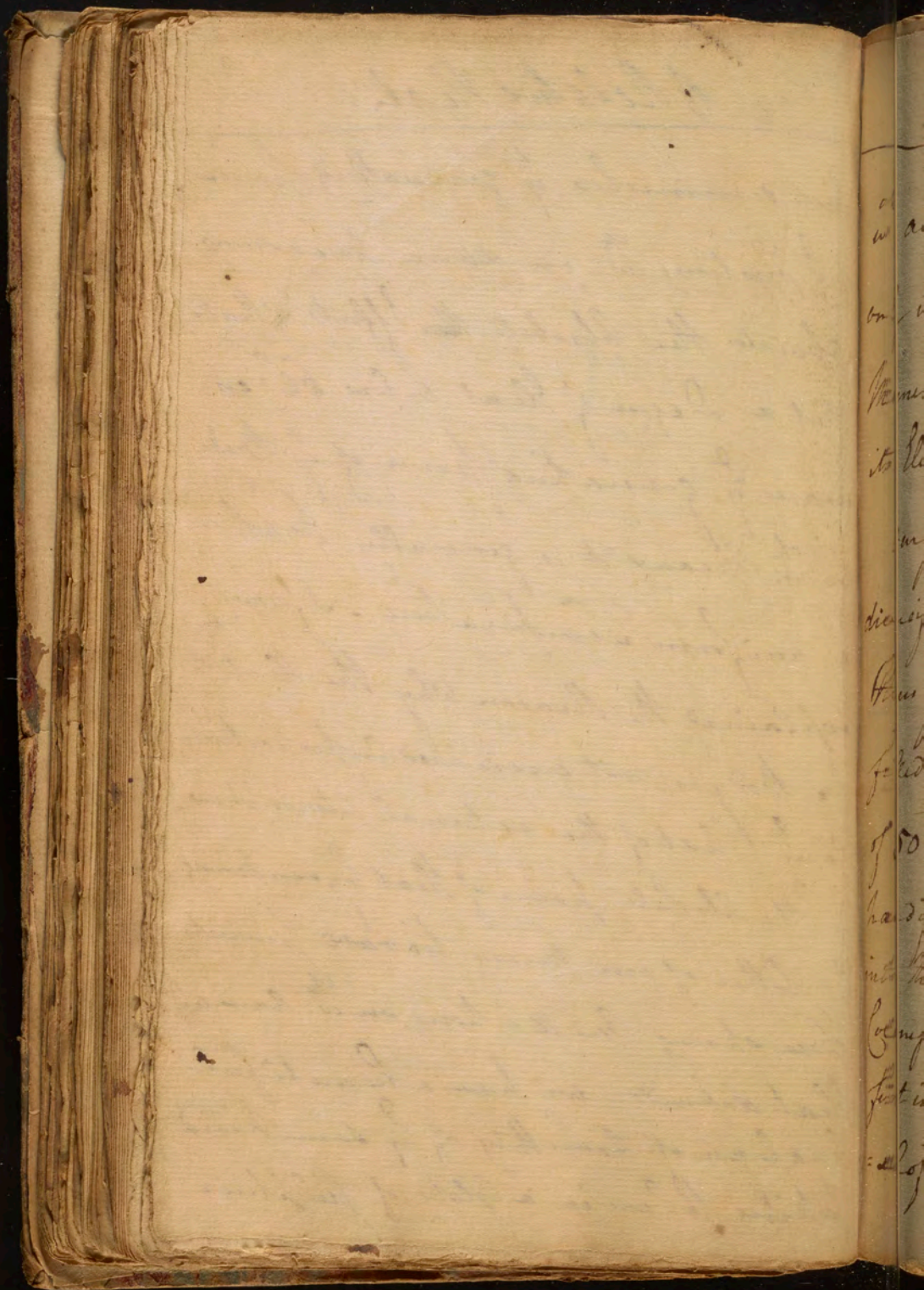
But all these Absolute ^{powers} Effects of Heat have relative Effects on an animated body. Every Temperature of $\frac{1}{2}$ air beyond 62^o shows $\frac{1}{2}$ Absolute Effects of Heat,



of Relative Heat.

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but diminishes $\frac{2}{y}$ generating power
of $\frac{2}{y}$ System ^{ch} in some measure
obviates the Absolute ~~the~~ Effects of Heat.
But a Degree of Heat below 62: ^{no} ~~ess~~
increases $\frac{2}{y}$ generating power of $\frac{2}{y}$ Body.
by ^{ch} ~~w~~ Means it is generally kept in
a uniform Temperature. I formerly
explained the Reason why the Heat of
the Body is not increased in proportion
to $\frac{2}{y}$ Heat of the external Atmosphere.
- the Absolute power of Heat by rendering
the Other of our nerves too rare prevents
these strong Oscillations on ^{ch} ~~w~~ Animal
Heat depends. we have a beautiful
analogy of something of $\frac{2}{y}$ same kind
taking place in a Globe of Sulphur

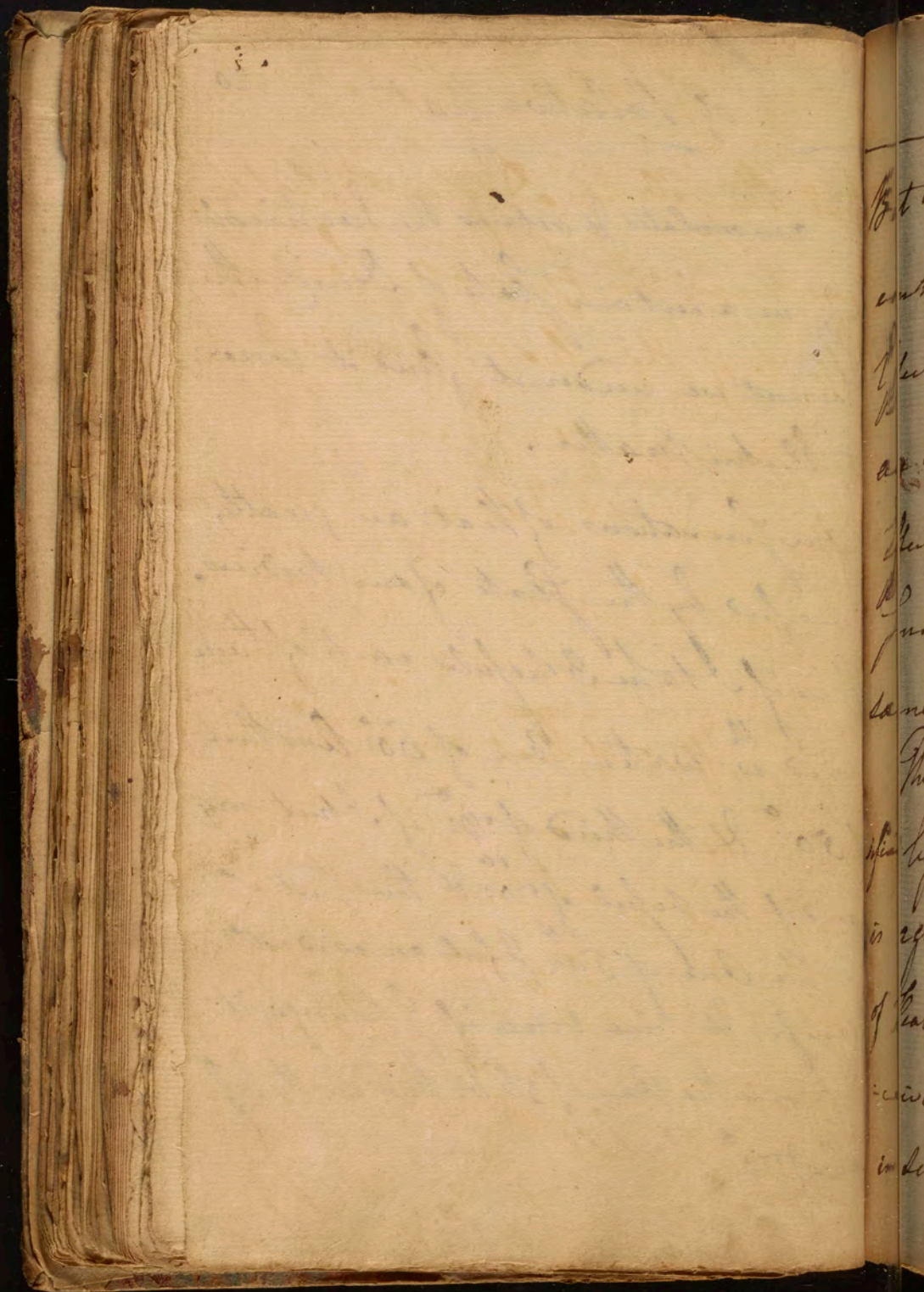


of Relative Heat

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th w. accumulates & retains the Electric fluid only in a certain state of Density. the Moment we under it find it loses its Electric matter.

Our sensations of Heat are greatly diversified by the state of our bodies. Thus if I take 3 vessels each of them filled th w. water One of 60° Another of 50° & the third of 70° if I put my hand th in the vessel of 70° & then put it into the One of 50°. I feel an evident Coldness, & vice versa if I plunge it first into the One of 50° & then in the vessel of 70°.



But the Absolute Degrees of Heat still continue to operate, for the Effects of the Heat from 60° to 70° are considerably greater than of Effects from 50° to 60° . Altho the Sensations may be nearly the same.

The Effects of Heat are likewise diversified by the Ordinary Temperature which is agreeable to the body. Thus a Change of Heat from 50° to 60° is scarcely perceived, but a change from 60° to 70° is sensibly felt.

Heat is never a power felt on

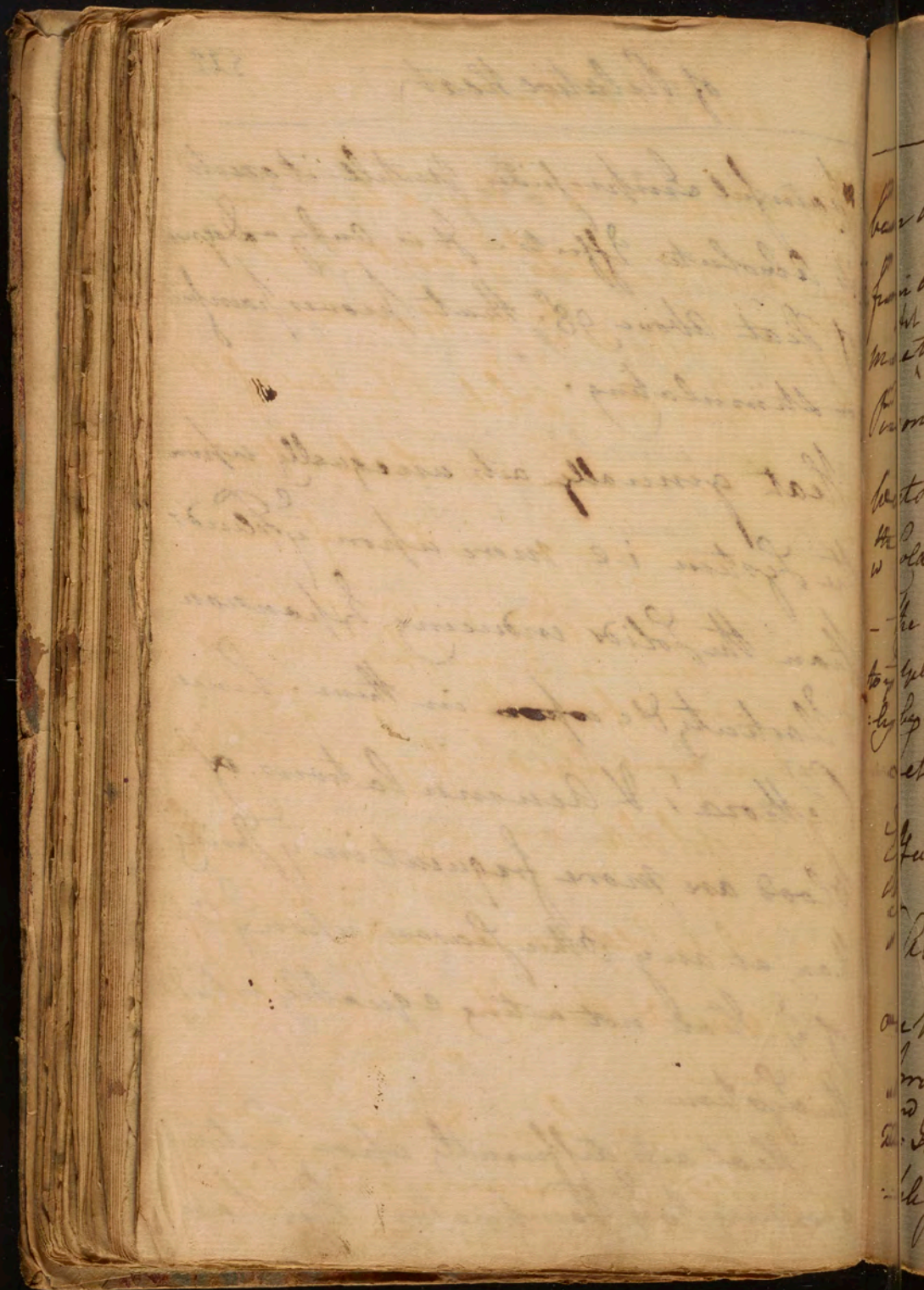
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painful Impression untill it exerts
its Absolute Effects. It is only a Degree
of Heat above 98° that proves painful
or stimulating.

Heat generally acts unequally upon
the System i.e. more upon $\frac{2}{3}$ Fluids
than the Solids inducing Expansion
- Vascularity &c. upon in them. hence
Plethora's & Accumulations of
Blood are more frequent in $\frac{2}{3}$ Spring
than at any other season upon $\frac{2}{3}$ Air.
of $\frac{2}{3}$ Heat not acting equally upon
the System.

Heat acts differently upon Systems
according to $\frac{2}{3}$ Temperature they have.



Relative Heat

been accustomed to. Thus a man going from our Climate to ^{the} West Indies is more to be affected wth the heat, than a Person born there, while a native of the West Indies is more apt to be affected wth Cold here than a native of Britain - the Reason why Strangers are so duly affected wth yellow Fever in ^{the} West Indies may easily be understood from this. ^{the} Absolute

Let us now speak of 2 Absolute
Effects of Cold.

1 Absolute Cold condenses ² & thins of
our Nerves & thus lessens Sensibility &
Irritability.

2: It gives a firmer & more tension.
- ple solid, ^{ch} w: gives more quick and

as $\frac{9}{10}$ of mankind live in a Degree
of Heat below 62°

Absolute Cold

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strong Oscillations ^{ch} w: in some measure
obviates the Immobility induced by ^ery.
Cold. it never sinks ^e of generating
power of Heat below ^{to} 98°: no more
than Heat exceeds it.

3rd It condenses the Fluids & acts the
Reverse upon them to ²w: we said of
Heat.

... There are many Means of Obviating
the Effects of Cold in our System. (a)
1st It increases the generating power
of Heat when applied in a certain de.

= qnce.

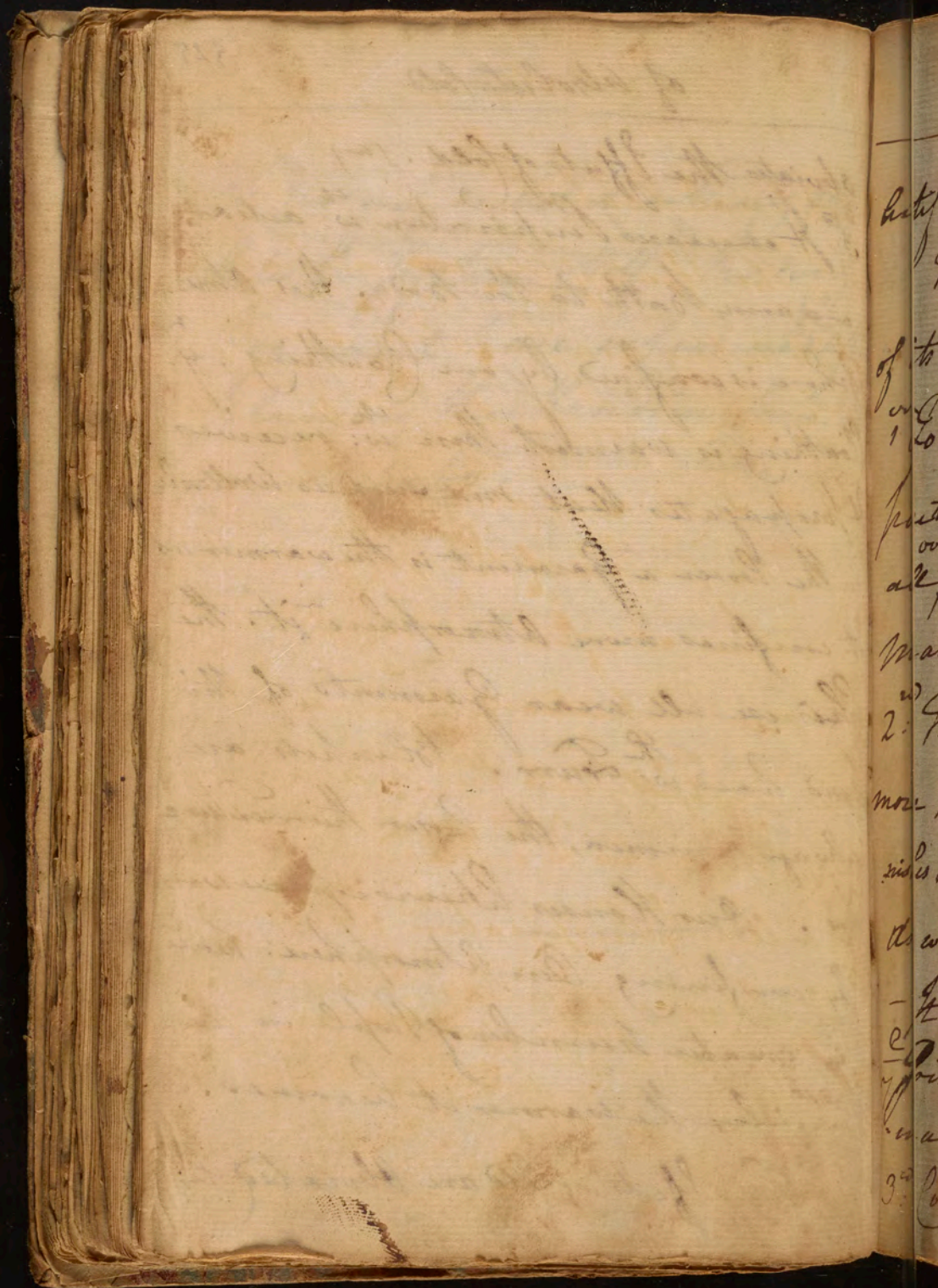
2nd It is a powerful Stimulus & prompts
the System to exercise ^{ch} w: we know

(a) not only so but it actually stimu-
lates the system itself. This every
One must have experienced after
plunging their hands in snow, or
very cold water. —

obviates the Effects of Cold. ^{1st}

3rd It increases Perspiration w^{ch} acts as
a warm Bath to the body. This Atmos-
phere is confined by our Cloathing. y^e
Cloathing is warmest there w^{ch} receives
It propagates that heat such as Wollen &c
- the looser a Garment is the warmer as
it confines more Atmosphere ⁱⁿ it. the
Chinese all wear Garments of this
kind lined wth Furr. Blankets are
always warmer, the looser their Texture
are. Our Houses likewise prove warm
by confining Our Atmosphere. hence
y^e greater number of People in a
Chamber the warmer it becomes.

4th The Effects of Cold are Obviated by



Artificial Heat.

The Effects of Cold ~~not~~ independent
of its acting as a sensation are

1st To induce Constriction in all irritable
parts such as γ Lungs, & sometimes
^{over} all the surface of the Body. in this
manner it often brings on Fever.

2nd This Constriction determines γ Blood
more plentifully into the Viscera. diminishes
Perspiration & increases γ Urine,

as well as γ Perspiration from γ Lungs.

- It likewise determines γ Blood to
 γ Joints, & hence the Cause of Rheu-
matism.

3rd Cold acts unequally upon γ System.

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viz: condenses the Solids, while the
 Fluids remain the same, or rather
 are often rarefied by the Heat generated
 by the Stimulus of the Cold. From this
 you will easily understand y^e Theory
 of Inflammⁿ in general & of Rheumatism
 in part: especially when y^e Cold is
 applied to One part of the Body Only.

But 5th the Effects of Absolute Cold are
 diversified by the different States of Excite-
 ment in the Sensorium. Cold we know
 tends to destroy y^e Mobility & Excitement
 of the nervous Other, but from its Stimulus
 it often rather induces an Excitement
 of y^e Sensorium than diminishes it, ac-
 cording to y^e different States of the System. It

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depends upon the nervous Other being in
different Capacities of being acted upon.

- I am sorry I am obliged to conclude
this Subject so abruptly, but I am ne-
cessarily called out of town. & as the
Season is so far advanced I shall pro-
ceed next to the Methodus Medendi.

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Methodus Medendi

This is either Empirical or Dogmatical
 The 1st Regards no Indications nor does it
 enquire into the Qualities of Medicines
 The 2nd enquires into the Operation of
 Medicines & the state of the System in w:
 they are given. I am determined to
 treat the Subject now under Consider-
 ation in this last way, but shall derive
 all the principles I offer you from
 Experience.

The Method. Med. has been divided into 4
 parts 1 Conservatoria
 2 Preservatoria
 3 Curatoria.
 4 Mediatoria.

The 1st Relates to the Preservation of ^{the} Powers of Life. It is sometimes called *Indicatio vitalis*

The 2nd consists in defending ^{the} Body ag^t the Action of the potentia nocens. This is likewise called *Indicatio Prophylactica*.

The 3rd consists in changing the proximate Cause of a Disease so as to restore the Body to Health.

The 4th Is when we Don't know the proximate Cause or cannot reach it, in ^{the} w^h Cases we order palliative Remedies.

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These Divisions of the Methodus Medendi are unnecessary. the 3.rd Indicatio Curatoria comprehends all y^e rest & I shall confine myself ~~only~~ to it alone.

Most of our Systematic Writers lay down general Rules in y^e Medendi Methodus.

- in Imitation of these I shall deliver a few w^h shall ^{be} very short & shall be by the way of Critique on ~~Dr. Hoffman's~~ Rules.

This 1.st Rule is to follow Nature. all Physicians from Hippocrite to Sydenham

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& downwards have declaimed on this
Subject. The System I grant easily
restores slight Deviations of its Balance.
- many particulars might be bro't in
Illustration of this w^{ch} you may recol-
lect when we spoke of the Action of
Heat & Cold. - many remote Causes of
Diseases excite the System in such a
Manner as to remove themselves.
in a word then it appears very evident-
ly that there is a "vis Naturæ Medicatrix"
but still I say the powers of
Nature have been too much extended.

1a) This has arose from an Opinion
that the soul was diffused thro
the body & superintended all its
operation - This was Stahl's notion - or
2^d that the Deity directed it. This
last too Abused to need Refutation.

- The 1st is refuted by Dr Weyt - It
supposes the Divisibility of the soul -
- likewise its being employed about
several things at the same time each
of w^h are absurd & contrary to all sound
Philosophy. - What then is Nature?

- The same in the human body as
in the inanimate parts of the world. -

- a conserving ^{propertly} ~~force~~ w^h acts me-
chanically & possesses neither wisdom
- Power nor Goodness in the human
body. The same in vegetables as
in the human system. ^{tries} ~~used~~ to bind
(but return again - when oppressed
force their Growth &c -

Methodus Medendi

^{1a}
 The Stahlian imagin^e the Soul
 acts in curing all Diseases, & do not
 suppose it depends upon the Medica-
nish of the body. There are many
 Diseases in w^h the Efforts of nature
 do nothing such as Palsy, Aphro-
 -disia. ~~Many~~ many Spasmodic Disorders
 - Schirri &c. But the Efforts of na-
 -ture are often hurtful. even y^e Stahli-
ans acknowledge that there "Anima
 medica" commits Mistakes. Physicians
 I say then have talked too extravagantly
 of the powers of nature. The progress

There understand y^e: I believe all
Nature to be under the Administ^r-
tion of a Being infinitely Wis-
e, powerful & Good - But who will
overrule even partial as as to
make it contribute to the gen^l.
Good of the Universe - But evil
we have - we see it - we feel it -
in every Part of Nature - Storms
Thunder - Lightning Insects &c
are real evils - all must confess
this - Altho' they are overruled as
as to contribute some way to the
well being of the World - To return
I enquire in w^h ~~few~~ Diseases
Nature helps - very few - corrects
slight deviations only - In Fevers
takes away our Appetites - call
for Drinks & light Aliment -
In Wounds - from sharp Bodies

of Medicine in my Opinion has been much retarded by paying too much attention to Nature & by being too diffident of the powers of ~~nature~~ Art.

Dr Hoffman's 2nd Rule is to evacuate all Morbific Matters as soon as they are formed. This is a good Rule & strikes directly ag^t the former one, as it overthrows all the supposed notions concerning Concoction &c. his 3rd Rule respects the last, & therefore deserves no Obviation.

If all Pleuris sh^d pass thro' them I would ⁱⁿ advise w^h they are most used to circulate

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Methodus Medendi.

thro. thus $\frac{1}{2}$ water of a drop of sh? be
evacuated thro $\frac{1}{2}$ kidneys or $\frac{1}{2}$ pores of $\frac{1}{2}$
skin.

See Dr. Hoffman's, Other
in his works. They are most of them
so plain that they require no explanation

I shall now proceed ^{to} of the
Cure of Diseases, & for $\frac{1}{2}$ purpose
have given you a Table w. ⁱⁿ con-
-prehend all $\frac{1}{2}$ Medicines used in
curing Diseases of the Solids & Fluids.

excites Inflammⁿ - In Pleura
Vomiting & a few more.

41 In W: she does no good - In
some we shall find inactive -
- some want wisdom - Others
Power Others Goodness -

1 Inactive - small fox - no
notice when ² contagion is near? -
- no Repuration &c - The same
many times.

2 Wisdom - ~~Both~~ ^{Both} ~~Times~~ - ^{Dependent}
weakens the system -

3 Power - cannot often overcome
the cold Stilt of an Intermittent w/out
warm Drinks &c.

4 Goodness - neglects to punish us
in youth for our excesses - but
Pain spares us in age.

Indicationes Curatoris

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I In Morbis Solidarum

1 Simplicium

A suppletare materiem deficientem per
Nutrientia

B abumere superfluum per
Erodentia

C roborare lacam per
Astringentia

D lacare rigidam per
Emollientia

2 Motricium

A celerare Motum per
Stimulantia

B minuire motum per
Sedativa

C coercere Motum inordinatum per

Antispasmodica

II In Morbis Fluidorum

1 alterare vel immutare

A aggregationem

2 inspissam per

Alterantia

6 tenuem per

Inspissantia

B misturam praesectione correctione Aeris

Shall now point out a few
Diseases in w^h the W^h of
one two or all these appear.

1. Fevers - Nature exerts herself
only partially to obviate Debility -
some Determinations to $\frac{2}{3}$ Brain
- viscera & Bowels which bring on the
worst of Consequences - In Intermitting
the Frequency of Paroxysms instead of
weakening the Fitts encase $\frac{m}{n}$ in
Obstructions - Dropsies &c - In
Nervous - Delirium or Insensibility
- Nothing called for - In Inflamⁿ
Nature tends to supp^r: & Gangrene

2 Plethora - Nature empties it -
not thro' the Pore - but into the
Brain or Lungs. -

3 In Hypochondriac Melancholia

a Generationem per
Demulcentia

b Speciationem per

a Antacida

β Antalkalina

γ Anterumica

2 Evacuare

A Humorem unicum nempe

a Mucum

Exhalina &c

b Salivam per

Sialagoga

c Urinam per

Diuretica

d Perspirabile per

Diuretica + Diaphoretica

Sanguinem per

a Vias naturales per

Emmenagoga

β vias artificiales per

Phlebotomiam &c

F. Serum per

Vesicantia &c

B. Humorem vanum per

a Emetica

b Cathartica

- She leads us to Solitude - Com.
- many Amusement the only Cure.

4 In too great irritability or Inflamm.
of the Stomach - Vomiting excited -
- Bleeding indicated - no natural
Haemorrhage. - Antispasmodics necessary -

5 In Dysentery - Purging immoderate
- only to be checked by promoting
Another Evacuation -

6 In Palsies - Apoplexies - & all the
Train of new Diseases - Nature
inactive

7 In Hemoptoe Consumption &c
Nature overacts her Purpose -
Cough retards instead of hastening
the Cure. -

Of supplying the Systems

Every Treatise of the Methodus Medendi has proceeded in this way marking out particular Indications from the several Heads of the Cause proxima & reduce them to Classes from our systems of Pathology.

It is difficult & is far from coming near Perfection. Most Systematics tho they differ in Theory have agreed pretty nearly in this & I only give mine as a Syllabus & not as proper. I have first made a Division into the Diseases of the Solids & the Fluids.

I begin by considering the Indication of the simple Solids viz to supply defect in any Part. This is done by Nourishment. It is first applied to the Fluids & relates to both Solids & Fluids when deficient.

I shall not always be able to keep to this Plan & often we must consider the Matter employed before we can consider the contraindications.

With respect to Nourishment we know extremely little of the Theory of it applied to particulars, as one Animal is nourished by Grass another by other Animals. I shall consider what Experience has taught us with regard to the Matter. It is either vegetable, animal, or of an intermediate Nature.

we are told Nature errs on two
sides only - too slow - or too violent -
- not so - In the cases before cited -
we must & the most humble
Minister of Nature does not directly
in Opposition to her - who would
ride a Horse y: required Alteration
the spur & the Whip - sometimes
to be turned round - Nature al:
ways to be distrusted - In slight
Cases may do - But she ever
be subjected to Theory

I think the Vegetables may be divided into three Kinds
1 Sugar. 2 Farina 3 Oil.

Whether or not there is a 4th Class of mucilaginous Mat-
ter distinct from any of these may be an Enquiry, but
I think it may be reduced to one or other of the former.
The Vegetable Matter is of great Diversity & Impureness.
So that many more Subjects contain elementary Mat-
ter than what are in Use, as Woods, Bark &c & we only
reject soft Matter as connected with some deleterious part.
I think the three Heads I have mentioned can include
every form we know of Aliment & I shall first
consider the one we are most acquainted with.

With regard to the Farina there is no Doubt of its being
an Aliment & is in the most general Use in all
Nations. Oil we know is often taken in but it may be
doubted if they dont only take it to moisten the solid
Parts more than to furnish a Nutriment but we take
it in such large Quantity & sometimes alone that I
think it must enter into the formation of dymphe
Animal solid especially as we can find it in the form
of a Secretion & besides finding it in its Native form
thus used, we find that it enters into the Composition
of the most common aliment, viz The Farina.

With regard to Sugar the Doubt may be as considerable

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we then
fell in
fat in the
of grapes
kaily ro
live on
He in
add as
it in
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thinks
& some
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Body
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of legs
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Of Sugar Oil & Farina as Aliment.

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as we don't find it employed alone as Nutriment, but we often take it in great Quantity & besides this the People in our Colonies are observed to become uncommonly fat in the Sugar Season & we find it the principal Part of Grapes, Figs & all such saccharine Fruits & are remarkably nutritious especially when dried. Whole Nations live on Dates & Figs, were long the Diet of the Athlets.

It is in great Quantity in all vegetables besides being added as a Condiment & especially the Farina contains it in very large Proportion even prepared & can by a Process almost entirely be converted & I am apt to think that Farina is nutritious as it contains Sugar & I imagine the true nutritious Matter is Sugar united wth Oil. We know that they do not unite in the Body when not joined before they are taken in.

On this we should expect that the Degrees of Nutrition of Vegetables should depend & from this a Scale of the different Aliments may be formed.

- 1st Lowest I would put the succulent herbaceous plants as Spinage. 2^d succulent Roots, Turnep. 3rd moraceous Fruits, Cherries. 4th saccharine fruits, grapes.
5 These Dried, Raisins. 6 Farinaceous Roots, Potatoes.
7 Piths of w^{ch} we have only one, Sagoe. 8 Farinaceous seeds, Rice &c of a higher Degree than the Cerealia standing
9 Leguminous seeds, pease higher 10 Nuts of an oily Nature

Almon
First be
The only
it is an
immediately
from an
con'union
of oil is
properly
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Of Milk as an Aliment.

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Almonds & lastly 11 Pure Oil itself from the Olive as a
Fruit & several Seeds.

The only Instance of an intermediate Aliment is Milk,
it is animal in some Measure, but is from the most im-
mediately received vegetable Matter & from analysing it we
find an Acid easily evolved of a fermentative Nature
containing a great Deal of saccharine Matter & a great Deal
of Oil is diffused in it & is the I think before their
proper Union. It has also a great Quantity of Lymph
united with it & fully formed. In this intermediate Aliment
we have also a Scale of Degrees of Nutriment. If you
separate the Oil from the Lymph, you have Serum
nearly the lowest Step of the vegetable Aliment. A higher
Degree is got from Whey taken from entire Milk. The
serous & the coagulable Part in Butter milk gives ano-
ther Degree & this depends on the Manner it is taken
as the Milk was previously deprived of its Cream or not
then Milk itself, higher still Cream & still higher pure
Butter. As the chief part is chiefly animal Lymph, it
is the most nutritious of all especially if taken from en-
tire Milk.

I next shall consider animal Food.

Here we have Difficulty of setting Limits I believe as at
Regard to Vegetables They are all capable of affording

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Of the various animal Aliments

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Nutriments & we only reject them properly as containing
Poison, as the Case is of some Insects, Vermes, Pisces & Am-
phibia. The Variety of Animals extend to 6 Classes. The car-
nivorous Animals are now generally excluded tho they have
been used at Times. We find that there is a Degeneration
takes Place in our Bodies from the lowest Vegetable
Aliment to pure animal Matter. We can contain Vege-
tables in our System longer than animal Food &
especially carnivorous Animals & especially the mam-
malia & Aves of them. & first we should choose those who
naturally live on vegetable Food alone. Then those
who can live on either animal or vegetable & rank
them as we hence confine to vegetable Food alone, last
the Carnivorous. Those that live entirely on Vegetables
are least alkaliescent & in the Degree according to the
Nature of Vegetables. 1st Those who live on succulent
Vegetables. 2nd Those that live on Grain tho it renders
many of them more grateful to the Taste & perhaps
more nutritious. 3. The Exercise they employ ren-
ders them more alkaliescent & is the foundation of
the *Corro ferina* as the Deer differs from the Sheep.
The Animals may differ in this Respect tho the Cor-
cumstances are all the same as the Goat & Sheep.
There is besides this a Difference in their Ours more
or less perspirable. Fish are less perspirable than

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General Effects of Aliment

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than other animal Food as Birds. Young Animals less than old & they have been thought more nutritious, they are of slower Digestion in the Stomach however as may often be seen from weak Stomachs. I think this may be explained from our Aliment undergoing a Change to a saline State & more or less difficult evolution of it to fit it to pass off by the secretion I imagine may make the Difference. I must now speak of their Use to supply Deficiencies. Here I might enter on the whole Extent of Dietetics, but it is too large & I shall only speak of them as Remedies for particular Deficiencies.

The general Effects of the Nutrientia are to fill the Vessels by supplying the Quantity of Fluids, & the chief Effect of this must be to increase the Tension of the System, which you know greatly increases Strength & it must by distending the Blood vessels & Heart prove a considerable Stimulus to the whole System & also they produce these Effects by operating directly on the Stomach, which affects the Tension of the whole so much & by stimulating it more or less they also stimulate the whole System. This is the general Operation of the Aliment but it is difficult to explain when we consider it more particularly.

The Action of the Stomach seems to cause a Fever in

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Effects of different Aliments

544

the system, in every particular first producing a cold or chilling, in some Degree & then a hot set. This I think is caused by the Action of the Stomach & causes a greater Flow into the Stomach & in some Measure into the whole, this may be in a great Measure from its Distension, but I think it must also act from its Stimulus as an acid, as we find the Fever vary from the Nature of the Food.

It is greatest after eating animal Food. Both animal & vegetable Food contain saline Matter & this is evolved in Digestion but this saline Matter appears considerably different in its Power of stimulating the System. The vegetable food contains acid substances very dilute & possessed also of some Degree of a Sedative Power.

Animal Substances contain a more Stimulating saline Matter & that evolved too in a great Measure.

I would carry this further & say that the Difference in the stimulating Qualities distinguishes the several animal Foods from one another, the old from the young. The old have it most evolved & in the same proportion should stimulate most in the Stomach. This agrees also with the Time required in Digestion & I think this saline Matter must have a considerable Influence in modifying Digestion & we find that animal Matter advancing to a putrefactive State, cecities it more quickly.

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Cases where Nutrientia are required 545
than any other. In weak Stomachs of chlorotic or hysterical
Women we often find roast Beef easily digested while a
Chicken will remain for twenty four Hours in the Stomach.
Along with this I think it is probable that the Stomach is
endowed with Fermentability according to the State & Progress
of Digestion & that the different Degrees of Ferment gives a
peculiar Stimulus & different State as to most People we
find that give a greater Sense of Distension & Weight & more
thirst than Beef. - This is too extensive & difficult to be
applied to all different Elements. The Nutrientia
are to be employed as Remedies where there is a Deficiency
of Fluids which may happen from —
1st Evacuation from Laxation. 2 Diseases consisting in
increased Evacuation. 3 Interrupted Supply when the
usual Evacuations continue. 4th Impeded Assimilation
commonly attended & increased Evacuation. —

There are some Cases not to be removed by the Nutrientia
alone, as where the assimilating Powers are much weakened,
hence, the various Cases of ^{it} I cannot point out. It is to
be known by want of Appetite for Hunger always appears
to be a Consequence of finished Digestion. This
is our Guide especially if attended by Aversion, Disgust, or
Nausea. In these Cases giving Aliment is generally
lost Labour. It may justly be made a Question whether

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nor not we should ever force Aliment to be taken when there is no Appetite or even Aversion. I can easily conceive a Case often mentioned by our good Women where the Stomach is distended with Flatus & where forcing down a little Food as they direct may either expell the Air or cause its Change & Reabsorption & there may also be other transitory Affections that a little Aliment taken down may remove & appetite be produced: What they are I cannot venture to say. A more considerable Case where Aliment is forced is where there has been considerable Inanition & the Cause of it still subsists, here our Labour will be fruitless whether the Cause produces improper Assimilation or not.

All these occasioning Inanition & weakening the chylopoietic Viscera have a considerable Effect in both Ways, but the Cases of Inanition subsisting with the Cause attended with increased Impetus, such are the Cases of Fever, Inflammation & Haemorrhage, & also may happen in the Case of increased Impetus depending on Laxity. In this Case especially where Inanition depends on increased Impetus, it is that the Choice of Aliment is necessary. We cannot long delay the throwing in of Aliment & must use that which stimulates least choosing the vegetable & avoiding animal Food.

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Choice & Administration of Aliment 547

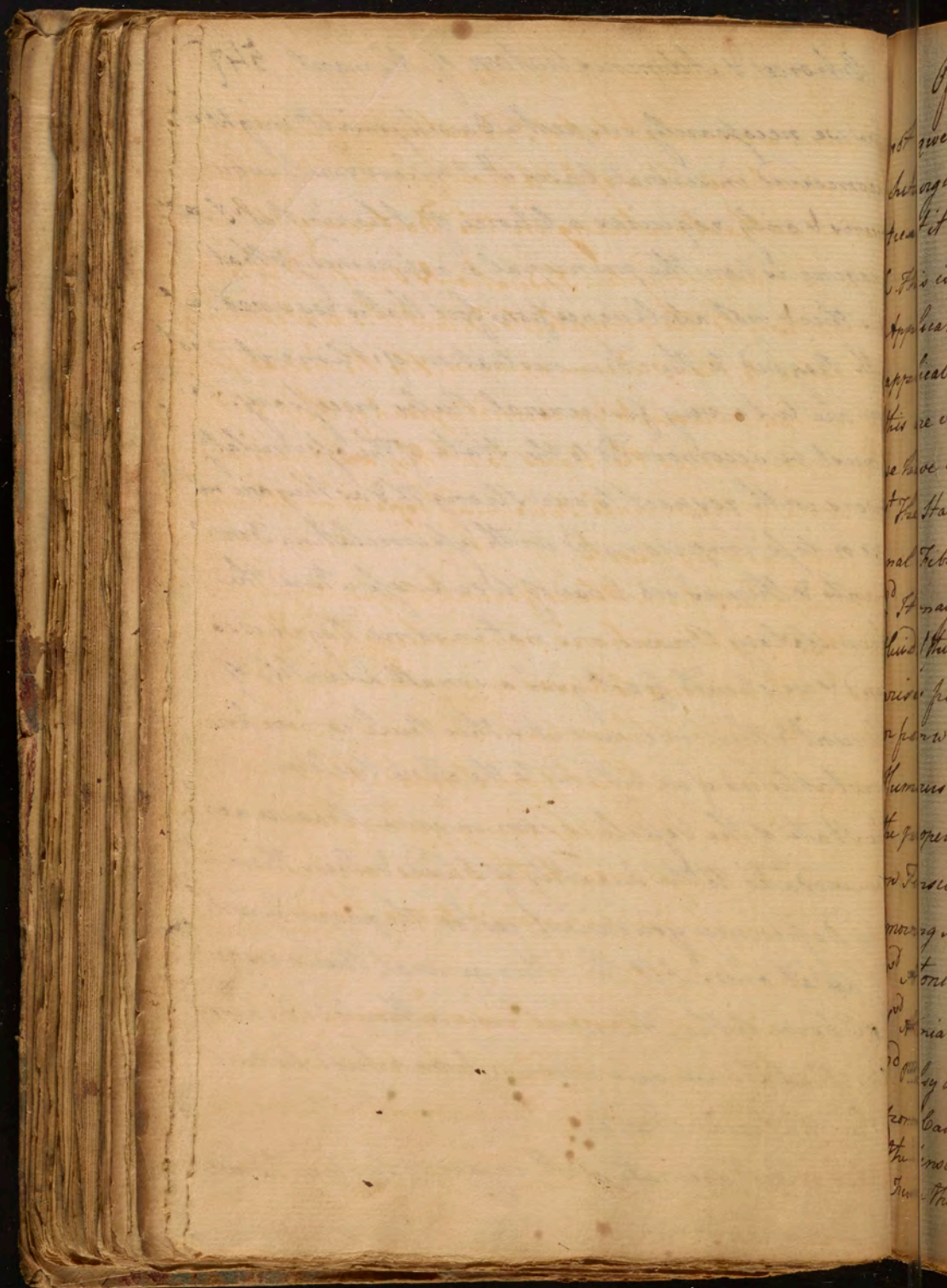
Here we necessarily suspect a Cacochymia^u might be conceived in several Cases w^h I believe rarely ever occurs & only requires a Choice of Aliment w^h I imagine is here the principal or only remedy & that it is this & not abstinence from food that is required.

With Regard to the Administration of Aliment there are but a very few general Rules necessary.

It must be accommodated to the State of the assimilating Powers with respect to our Strength & as they are more or less impregnated with assimilating Ferments & there is no Case of Weakness where the assimilatory Powers are not in some Degree weakened & we should first give a small Quantity of Aliment & then increase it & this Rule is more formally established if we attend to the whole System.

The State of the Vessels is soon in some Measure accommodated to the Quantity of Fluids & when there is any Deficiency you cannot restore the proper Quantity all at once. All the other general Rules respect the Choice of the Aliment & are either to be drawn from what I have said above or from a full Detail of the Materia Medica.

[B This is not accurate with regard to System. I have



Of Proborants for Laxity

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not given a compleat Set of Indications & this is the only
Surgical one. It is of little Consequence & I could not
treat it without entering on the Doctrine of Ulcers
&c. This is a very complex Indication & I confend it to its
Application to the simple Solid, but it is most generally
applicable to the *ulcerum vivum*. The Remedies for
this are very various & we cannot speak of them till
we have considered the Cases to which they are applicable.
The State of the simple Fibre may depend on the origi-
nal Fibre giving Laxity.

1^o It may arise from the different Proportion of solid &
fluid: (this might perhaps comprehend the other) &
arises from various Causes as applied in *q Nutrimen*
or from weakness of the exhalant Powers or from viscid
Humours applied without from Inundation & lastly
the proper Degree of Solidity being given it may depend
on Tension or Pressure. As the same occurs in the
moving Fibre it may be referred to two Heads

1^o Atonia. 2^o Palsy.

1^o Atonia arises from a Cause acting on *q* moving fibre itself

2^o Palsy arises from the moving Fibre being weakened
from Causes interrupting the nervous Influence from
the Sensorium.

From these Cases the various Proborants are indicated

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Of Roberants for Laxity

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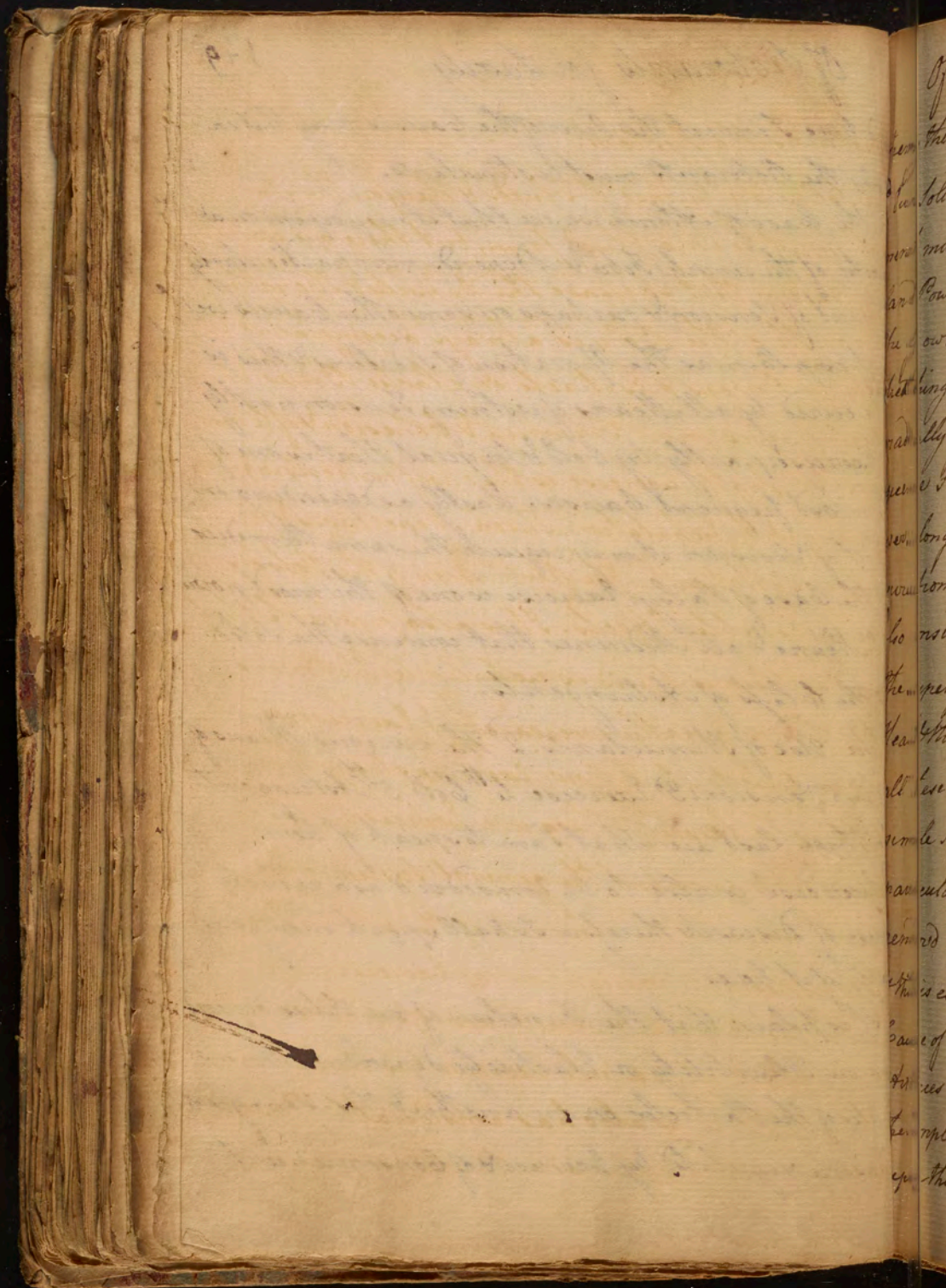
and here I invert the Order of the Causes & say that in Palsy the Roberants must be stimulants.

In the Case of Attonia we see that it may depend on a Laxity of the simple Fibre & it depends more particularly on want of Tension & perhaps on some other Causes we can't explain as the Operation of Sedatives & this is to be cured by all Means of restoring Tension partly by Exercise, partly by Cold & too great Heat is one of the most frequent Causes. Lastly as depending on Want of Tension it may require the same Remedies as the Case of Palsy. Exercise is one of the most powerful Means & all Medicines that condense the Solids as the Class of Astringents.

1st The Use of Stimulants. 2^d The various Means of giving Tension. 3^d Exercise. 4th Cold. 5th Astringents. The three last are what I am to speak of here.

1st Exercise is also to be consider'd as a remote Cause of Disease & therefore I shall speak more generally of it here.

1st It is plain that the Function of our Fibres depending on Flexibility or Elasticity depends on the mobility of the Particles on one another & this is in a great Measure regulated by Exercise & of consequence it

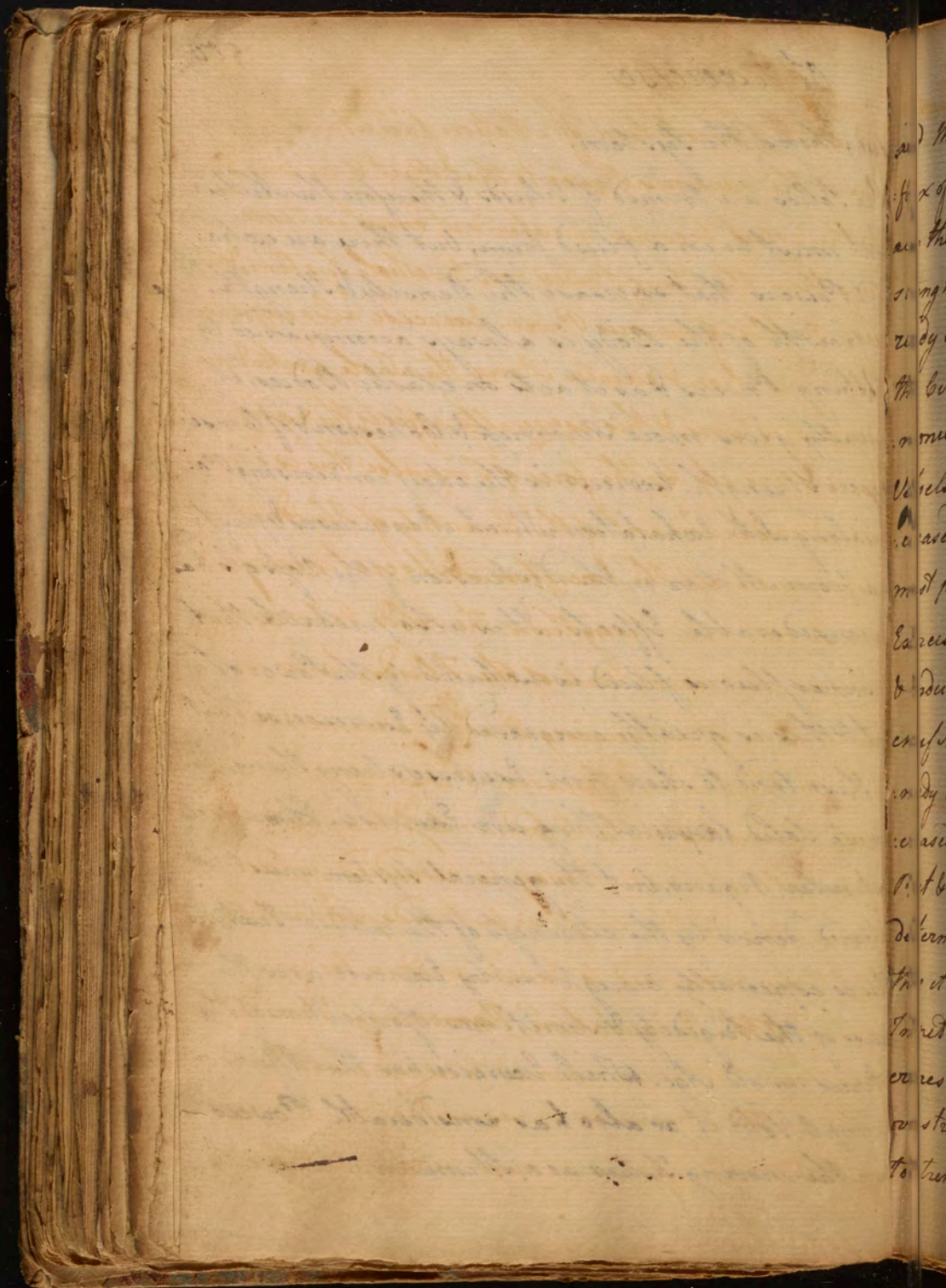


of Exercise

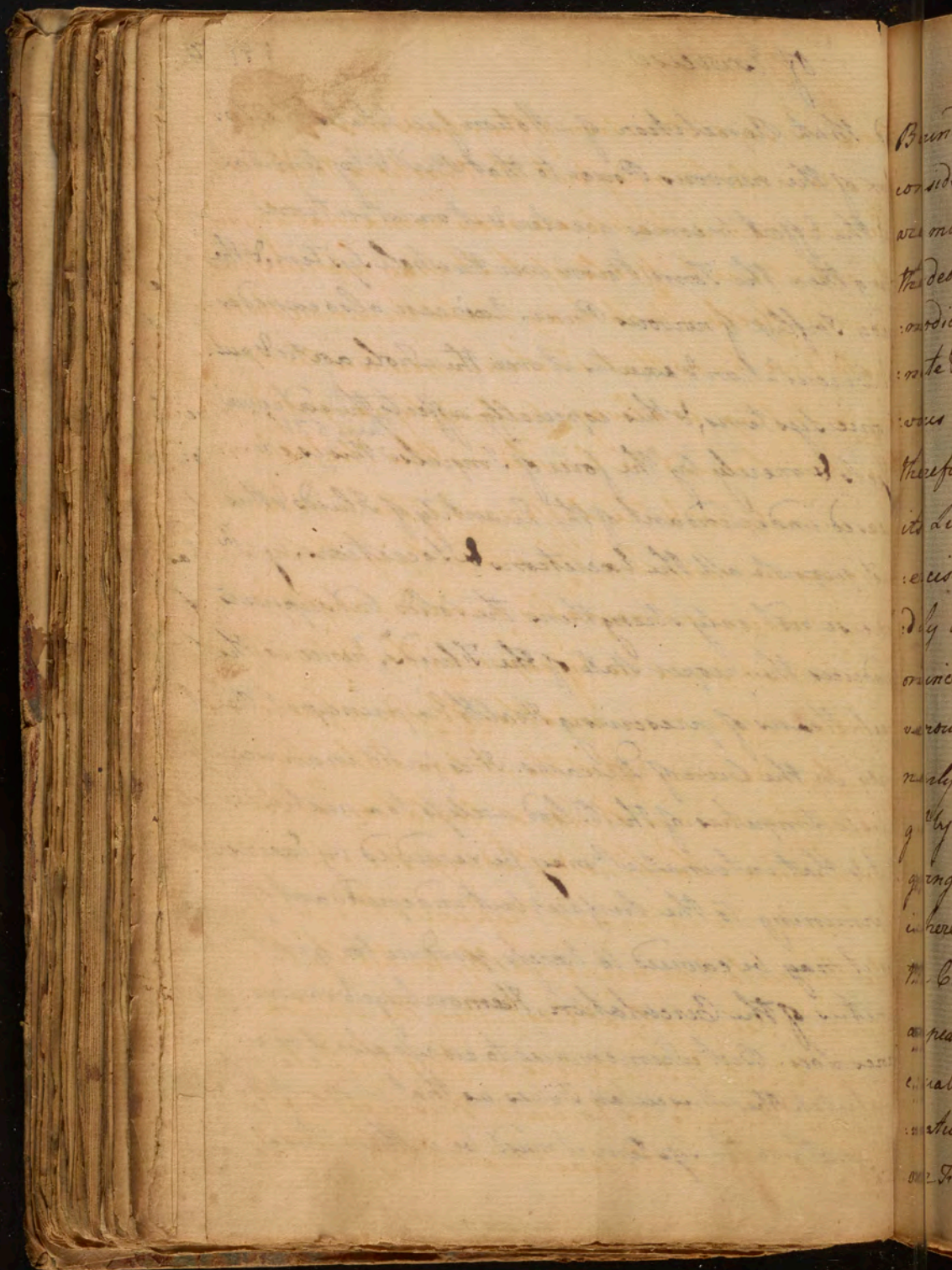
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strengthens the System.

Our Solids are formed of Fluids & therefore the Nutri-
ment must be in a fluid form, but there are coha-
sive Powers that increase the Density & Strength.
The Growth of the Body is always accompanied by
Strengthening Powers & as it acts on elastic Bodies, it
gradually gives more Firmness & Cohesion & of Conse-
quence Strength. Exercise is the chief condensing Po-
wer, along with Exhalation which it increases & pref-
ers more from Motion or the Distension of the Vessels has
also considerable Effects. It is also probable that
the superfluous fluid is exhaled by the Power of
Heat & this is greatly increased by Exercise, so that
all these tend to shew how Exercise strengthens the
simple Solid Larynx: as they use Exercise. This affects
particular Organs, but the general System must be
rendered dense by the closeness of the cellular Texture.
This is especially brought on by Exercise as is the
Cause of the Rigidity & sometimes Ossification of the
Arteries in old Age. While Exercise has these Effects on
the simple Solid it also has considerable Powers
upon the moving Tubes as a Stimulus. I formerly



said that Repetition of Motion facilitates the Influx of the nervous Power to that Part & by Custom also the Effort becomes greater & it must in time strengthen the Tonic Power over the whole System, & the ready Influx of nervous Power. Exercise also expedites the Circulation & executes it over the whole arterial & pulmonary Systems, & this especially affects the extreme Vessels & merely by the force of Impulse ^{this, 571} this is increased independant of the Quantity of Fluids & this must promote all the Excretions & Secretions, by which Exercise not only strengthens the Solids but supports & induces the proper State of the Fluids, hence is the chief Means of preserving Health & a principal Remedy in the Cure of Diseases. It is forbid in an increased Impetus of the Blood, unless to a particular Part & that internal w^h may be remedied by Exercise determining to the Surface, but independant of this it may be carried to Excess, produce too great Impetus of the Circulation, Hemorrhage & various errores Loci. But when carried to excess also it may overstretch the Muscular Fibres as that when employ'd to strengthen the System, it must be within these



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Bounds. In obstruction of the Fluids it may be a considerable Remedy, but the Objections to its Use are more remarkable are more remarkable against the obstructive Effects of it. It may produce spasmodic Effects, which may make them more obstinate & we know that whatever increases the nervous Influx is always followed by languor & therefore it must be limited on this Account. Hence its Limitation & the Difference of the several Exercises we employ. The voluntary Motions, bodily Exercise principally produce languor & bring on increased Impetus by expediting the Motion of the venous Blood. There are other Kinds of Exercise nearly independant of the Action of the Muscles got by the various Kinds of Gestation, as sailing, going in a Machine & Riding. The chief Effect is here by the external Pressure & this affects the Circulation principally, for tho' the Body appears seemingly at Rest, when the Motion is equable, yet when it stops, we find the Determination it has to go forward. This greatly affects our Fluids & on the least Variation of the Motion

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the fluids may be found to be impelled. This occurs more or less in all Gestation & from this I imagine they act so much as desobstments & overcome Obstructions as much by determining to the extreme Vessels & along at these for the most Part some Degree of muscular Motion concurs. The Effort is gentle but constant & can be bore longer than bodily Exercise.

2^d Cold. As acting on the inanimate Matter, condenses it, but this only on the Surface & not considerably; next it condenses the fluids & allows the Solids to contract by this Means & to this I would add its Condensation of the nervous Power. It must give the whole solid Parts more density. next its Effects are still more considerable to our System as sentient to which it acts as a constant Stimulus & from this it produces its full Effects in the Contraction of muscular Fibres. The other Effects of Cold are secondary, its Effects on the Surface are propagated along contiguous Membranes & the Tension of the whole is increased & also its Stimulus is continued over a great Part of the System particularly along the whole sanguiferous System, where Action we find it often excites & from this & from its increasing the Tone it promotes Perspiration & all the excretions & also gives Activity. There seems to be

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a nervous Communication propagated whether by Tension or Stimulus by which the Application of it to a particular Part, to a finger, may spread its Effects over the whole System & produce a general Irritation. This seems to be connected merely with a sense of Cold as often the Body is of the usual Heat when tried by the Thermometer. Cold is a Stimulus to excite the Energy of the Sensorium & thereby the whole System. The Motions of the System I have said are more directed by final Causes than we can explain & Cold by this occasions a Reaction of the Sensorium which operates its Effects & this not only gives momentary Tension but invigorates the System. There is however something more in the Effects of Cold than I can explain. The Tonic Power depends on the Density of the solid Matter, of our Nerves & especially of the Ovary. If the Elasticity is increased with greater Rarity, it does not answer the purpose but gives Debility & there must be a certain Balance of Elasticity & Density from Cold & it is therefore the most proper Stimulus to our System & this should be much above at times that State of Air we find agreeable & greater than the Cold of our Bodies always. Heat destroys Vigour & lessens the generating Power as is seen in warm Climates. The Use of the Application of Cold is easily understood from the foregoing Principles of its acting

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as a Sedative & thereby destroying Life if in too great Degree of its Producing Constriction hurtful if not followed by Heat, so it is always unsafe if it does not stimulate, & if it is much greater than the Degree of our System, it must be transitory to be safe. All this applies easily to cold Bathing not so to cold Air. In Haemorrhage we know how necessary it is to keep the Body cool, as Heat induces a Delicacy but the Degree of Cold is not ascertained tho' they are now trying it in the small Pox.

3 Astringents are a Set of Medicines whose Uses are ill ascertained but I shall mention some Facts with regard to them & some Conjectures otherwise.

I suspect that Astringents are such Matters as coagulate a Part of our Fluids & act on the Solids as of the same Nature. They may be reduced to three general Heads, viz
1st Alcohol 2 Acids 3 Styptics.

The coagulating Power of Alcohol is well known & also its hardening the Solids. It is applied externally to harden the Surface & strengthen Cicatrix. I know of no other Use to the simple Solids. It acts also to the moving Fibre as a Stimulus & sedative.

2 Acids coagulate Fluids & harden Solids & have both a Stimulant & astringent Quality. Where they act as astringents there is probably a Diminution of Activity,

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of the nervous Power, & then they act as Sedatives, but in a certain State they dissolve animal Substances & stimulate more than constringe & must be more dilute to shew Astringency. Both alcohol & acids have been reckoned powerful Astringents from their stopping Haemorrhages but this is found rather to be from their coagulating the Fluids & forming Thrombi in the putulent Mouths of the Vessels rather than constricting the Solids.

3 Styptics are of various Natures more than we can speak of. Acids combined with a certain Earth that dont neutralize it entirely forms a Styptic. Of this Kind is Alum & it has led to a false Notion that all Earths combined wth Acids form Styptics, but I know of none else of that Class & on the contrary they dissolve the Blood & if ever they have appeared astringent it is from their refrigerant Powers if they are exactly saturated.

Most metallic Salts have similar Effects to Alum they unite wth Acid & give it a Degree of Concentration so thus partially saturated the acids coagulate animal Fluids & may seem astringent & it is here that some of them form powerful Stimuli. The Astringency alone appears in Acids joined with Lead & Iron.

Stimulus alone appears from Silver, Antimony & Mercury & a Mort Operation from Gold, Copper & Zinc

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The Effects of *Tin & Arsenic* are not sufficiently under-
stood tho the astringency indeed appears in *Tin* in some
Measure, but is combined with the strong Stimulus of
Arsenic. Acid appears to enter the Composition of styptic
Acids as styptics have been tied the vegetable Acids
their Acids covered but by what Means is uncertain.
but we know that it is acid concentrated & fixed in solid
Matter. Austere Vegetables are sensibly styptic tho
without perceptible Acidity but when we consider how
easily the acids pass into the austere we are led to think
that here an Acid is combined with some Earth & it may
be enquired whether our ind. Acid is not always the cause
of stypticity. The vegetable astringents are known
by their absorbing acid from Metals. They bring Iron
to a Black Calx & are hence the Foundation of Ink.
Thus far Acids operate on our simple Solids but not
perhaps very considerably for there are Doubts if
something else does not concur with the Operation of
styptics, in giving Density as in Tanning of Leather
great Pains is taken to retain the cellular Texture but
away the Sol. If we could not determine their Effects
in any other way but the simple Solids we should find
them of little Use but they operate also on the solid

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Parts. A small Quantity of Alum or Saccharum Sa:
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 Constriction over all the Fauces, whereas Decoctions
 impregnated with them or astringent Vapours do little
 I imagine in Part from their fluid Form, in Part from
 the Surface being lined with Cuticle & only act con:
 siderably on the tender Parts as the Eyes, Mouth &c.
 The Theory of their Operation internally is uncer:
 tain as we cannot suppose that the small Quantity
 carried to the Vessels can have much Effect in Hamor:
 rhages & any Effect they have must be from their Topi:
 cal Constriction propagated to other Parts. The Sto:
 mach is the most proper Organ for this as so much
 connected with the System & here the vegetable
 Astringents have small Effects compared with
 the Topical. On this footing the metallies have been
 called Narcotic. They are not Hypnotics like most
 Sedatives but have an Operation sui generis which
 remains to be explained.

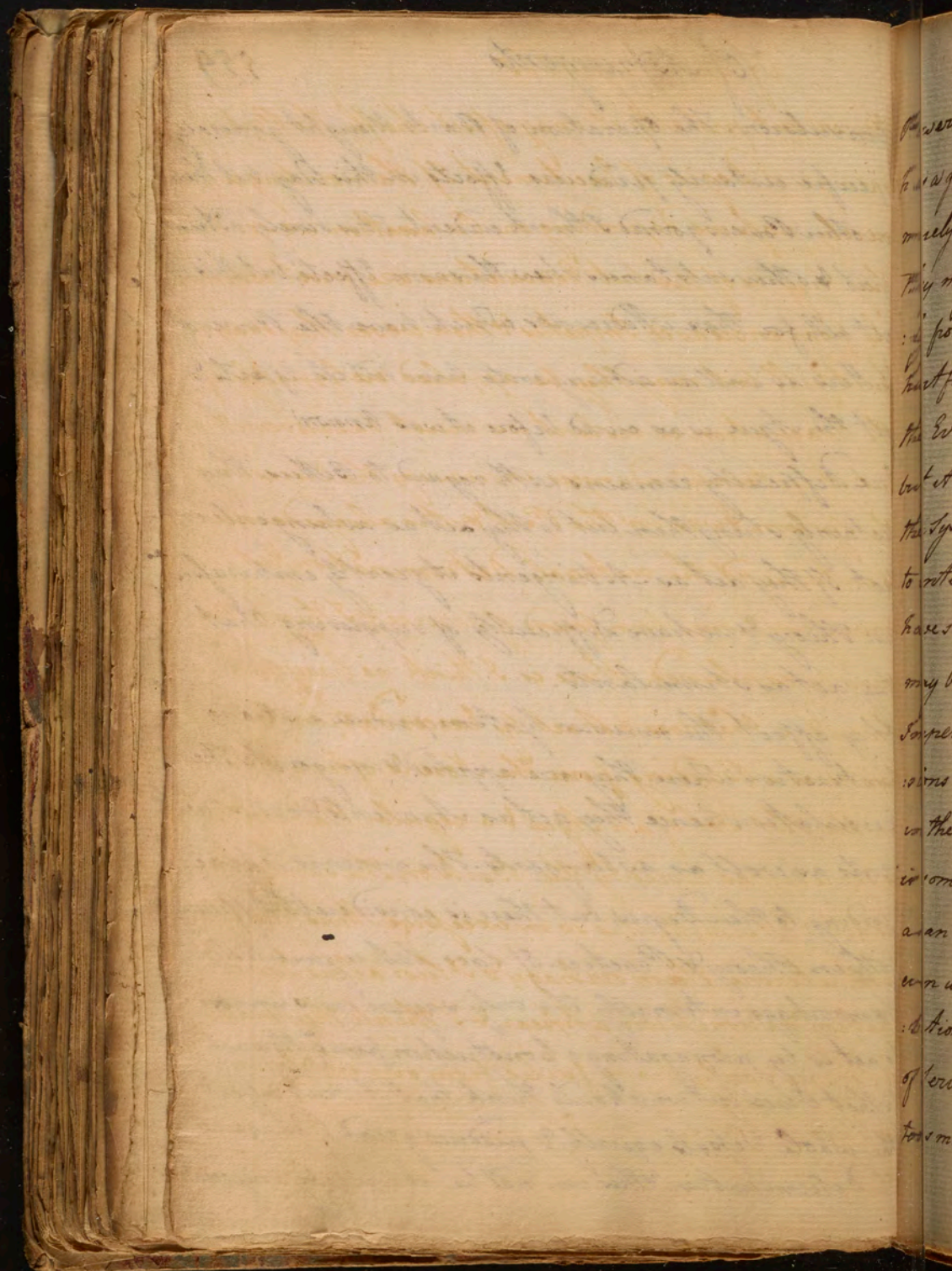
Astringents are strengtheners as changing the Ten:
 sion but in a higher Degree sedatives & pernicious.
 Astringents often give Constriction that prevents re:
 currence of Atonia that would occasion Spasms &

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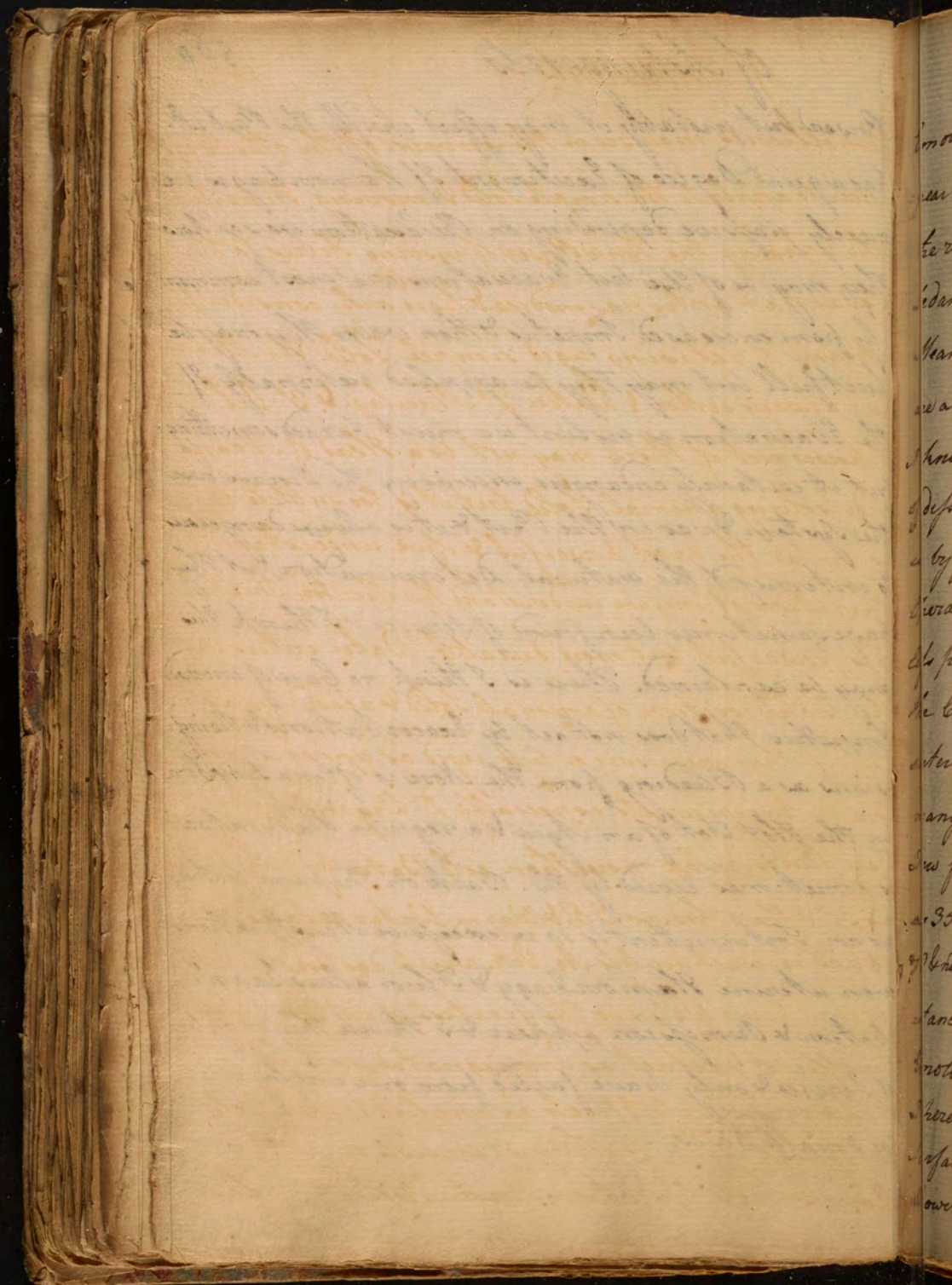
Convulsion. The Operation of Bark thought generally specific certainly produces Effects in this Way but there are other Powers joined I think evident. It is surely astringent & other substances shew the same Effects, but this is not all, for those Medicines which have the Power of Bitters as well as astringents have not its Effects & yet the Ague was cured before it was known.

One Difficulty remains with regard to Bitters, they certainly strengthen but do they act as astringents or not. If they act as Astringents it greatly embarrasses our Theory & we have Difficulty of supposing that they act as stimulants.

They affect the nervous system produce a strong Contraction where they are applied & invigorate the Circulation hence they act as Aperients & also as Astringents as well as astringents. This appears to be according to their Degree, but there is considerable Difficulty both in Theory & Practice. If Sacc. Sat. is given to stop Hemorrhage internally the only way we can suppose it to act is by propagating a Constriction from y^e Stomach to that Place, but we should think that it would affect the whole Vessels equally & produce great Change in the Determination & this can not be obviated by any sedative



Power but probably it may effect chiefly the Part which has a great Degree of Excitement. If Hemorrhages are merely passive depending on Relaxation we see how they may be of Use but Evacuations are most commonly from increased Impetus & then we see they may be hurtfull but may they be applied externally. If the Evacuation is violent we must hazard something but it certainly endangers increasing the Disease over the System & as in the Part & it is always dangerous to interrupt the natural Determination, but they have sometimes been found of Service & I think this may be explained. There is I think no Case of increased Impetus that does not act by Exacerbations & Remissions as a Bleeding from the Nose is often a Symptom in the Hot Fit of an Ague & a regular Hemoptoe is sometimes cured by the Bark on the same footing as an Intermittent is so in excessive Menstruations even uterine Hemorrhagy & Fluor albus, Exacerbation & Remission appear & I think they may be of Service & only have failed from our employing too small Doses.



Emollients may seem the converse of the other & appear to apply to the simple Solid & moving Fibres, but the relaxing the Tonic Power of moving Fibres to the Sedantia & antispasmodica & here only consider the Means of relaxing rigid simple Solid. The Means are always either 1st Water. 2^d Mucilage & 3^d Oil.

I know not if there may not be a Head of Means of dissolving animal Solid, but it is too subtle Water is by far the most powerful & if we understand the Operation of one we understand the other too, which are less powerful but more durable. Water enters into the Composition of animal Solid & according as it enters they are more or less rigid as appears from many Experiments especially Dr Bryan Robinsons. Few fluids relax more than cold Water by him it is as 35 & the other as 38. & Warm Water relaxes as 78 & not so much unless Ac. Vit. which destroys the substance, hence Water is the greatest if not the sole Emollient & all act as impregnated with it.

I here consider its Effects as applied to the whole Surface in warm Bathing. It consists of two relaxing Powers in its Operations Moisture & Heat. The last

not solely as assisting every Menstruum. It is
just suited as dissolving animal Matter, to clean
the Surface from Mucus & sebaceous Dirt as very apt
to concrete with Dust & obstruct the Perspiration & also
are apt to excite many cutaneous Eruptions. Hence
they obtrude & cure many Diseases.

Water assisted by Heat not only dissolves & washes off such
Matter but insinuates itself into the Cuticle & relaxes it
& tho it went no further from affecting the subjacent
Parts, it might affect the whole System from the Connec-
tion I have mentioned. In this way the Effects of
its Relaxation may be very great but they are more
as form a Number of Nerves being expanded below it,
& not only act on them as Organs of Sense but as com-
municating with the rest of the System & may be con-
sidered as rarefying the Ether & relaxing the whole
System. Probably another Consideration is to be
included as far as this Relaxation of the Ether is pro-
per & natural it gives a pleasing Sensation & may have
considerable Effects by withdrawing the nervous force
from the Sensorium which may be restrained from
Anxiety Delirium &c & then the warm bathing may

[Faint, mostly illegible handwriting in cursive script, likely a historical manuscript or letter. The text is written in dark ink on aged, yellowed paper.]

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induces the unexcited State necessary to produce Sleep. Its Effects however are not confined to the simple Solid & nervous System. but affects also the sanguiferous System. It is applied to the Extremities of the Vessels, relaxes them & allows a considerable Change of Determination & the Relaxation is propagated a considerable Way. It is disputed how far it penetrates. I think from the Relaxation of the Cuticle it may affect all the subjacent Parts even the Ligaments & Bones. It may also be applied to the Abdomen affect the Intestines & Viscera & remove spasmodic Affections from them.

The Application of Heat I have also said rarefies the Fluids considerably more than it relaxes the Solids & hence it may encrease the Tension & Impetus & the Heat of warm Bathing is found hurtful in the Case of increased Impetus. I must say that the stimulating Powers are very considerable but are safe as accompanied by a relaxing Power but they also may take Place sooner than the relaxant, but if so tempered as to come on nearly at the same Time & are moderate they can have no bad Effect & besides this the stimulating

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Means of exciting Motion

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Powers are more transitory than the relaxant. These Principles would be illustrated by an Application to particular Diseases but we have not Time for that. I have given also the Principles for its mode of Application. I think a little below the human Heat is the proper Degree to obtain the relaxing Power & have no bad Effects from its Stimulus but we have no Experiments to determine its Effects higher & applied for long Time, 2 Hours as in France speaks of. Samuncer:

to gain how far it may produce relaxing Power when much continued as we find in warm Climates it is very constantly used & was especially so by the Antients without any bad Effects & its Use in promoting the Principles of excretion is very obvious.

I now propose to consider the Indication of exciting the Motions of the System which is done by very various Means which might almost include all Remedies. I formerly defined Stimuli to be either direct or what immediately affected the moving Fibres or indirect as producing a Sensation & by that Means a Reaction of the Sensuum.

[Faint, mostly illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is written in dark ink on aged, yellowed paper.]

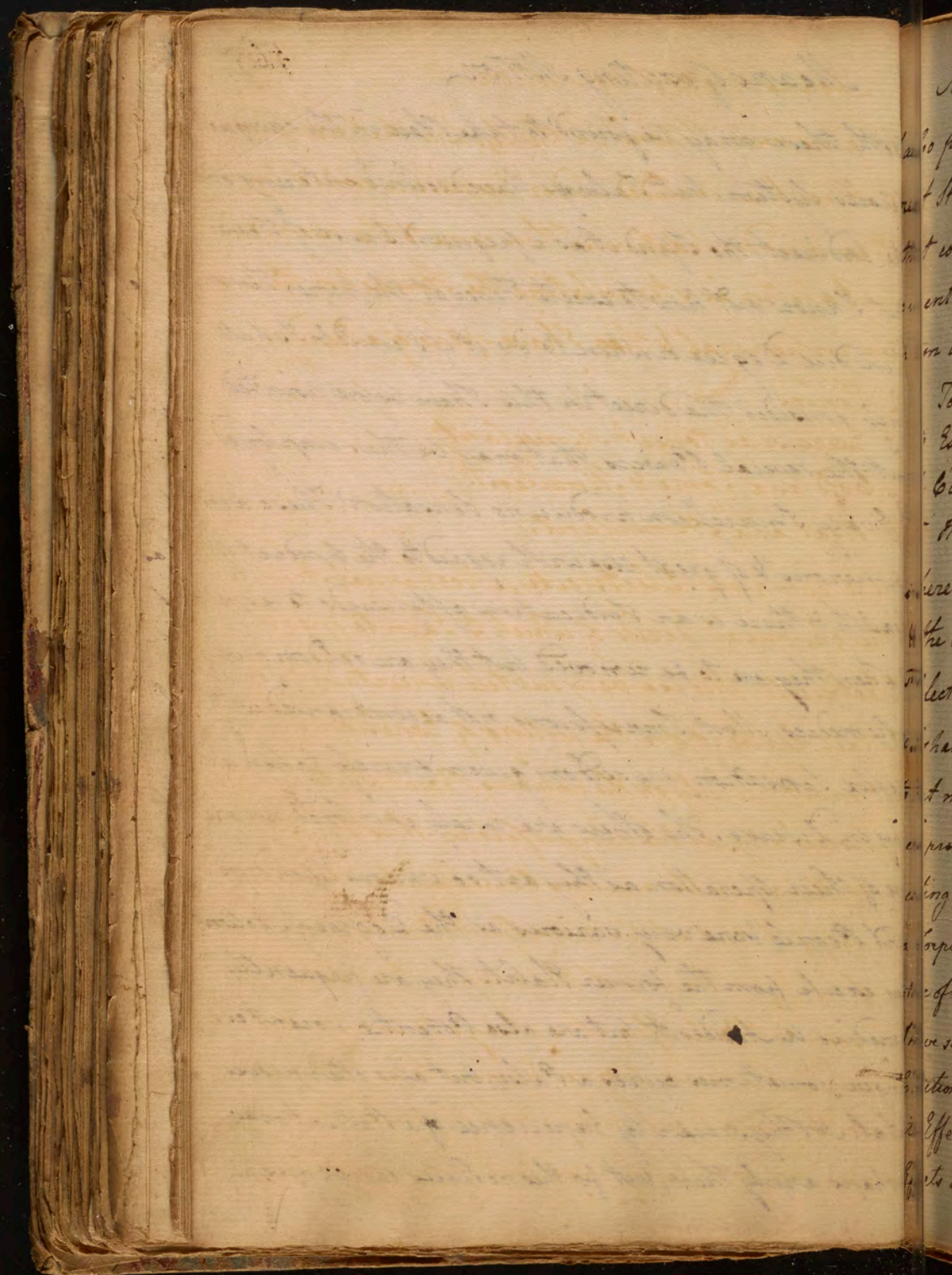
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Means of exciting Motion

565

Both these may be found to take Place in the sanguiferous System, but I always have declined entering on the indirect tho I find it as a frequent Cause of Fever but I know not how to excite Fever at the proper Time or in due Degree or when to do it if I could & I shall only consider the direct in this I have before pointed out the several Powers that may be thus employed.

Every Impression producing Sensation. These are numerous & of great Use with regard to the Conduct of Health & there is an Indication afterwards to be sought, when they are to be removed, but they are seldom given as Remedies. Most Impressions not accompanied with a reflex Sensation are seldom given & rarely taken away in Disease. The others are rarely employed nor are sure of their Operation as they act so variously on different People & are very various as the Degree of Motion they excite from the former Habit. They are frequently Remedies by Accident but are also Potentia nocentes. Anger sometimes cures a Palsy, but also often proves fatal. A Physician by Experience of a Patient may perhaps apply them, but for this no Rules can be given,



also pass over Motions in the System that prove indirect Stimuli as included under Exercise or some of them that come under Sedatives. I then come to the Use of Stimulents whether as stimulating the Stomach or the System in general & then I have spoke of already.

2 Tonics

3 Exercise as tonic & Stimulant

4 Cold as a Tonic & Stimulant.

5 Heat as a Stimulant.

There remains Electricity, Mechanical Stimuli & the chymical Acids of which I am to speak.

1st Electricity this is a very subtle uncertain Enquiry & I shall leave it on the footing of Experience. It seems to act most purely on the nervous Power while the others act principally on the sanguiferous. This Power of exciting Motion on the nervous Power makes it proper in a Torpor of it but at the same Time it may prove destructive of life & we know not the proper Limits & I think I have seen both & therefore it is always to be employed with Caution in the lower Degrees but we are to expect most of its Effects from Continuance & at the same Time its Effects are not so entirely new but it may affect the

[Faint, mostly illegible handwriting in cursive script, covering the majority of the page. The text appears to be a continuous narrative or list.]

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sanguiferous system & the Danger I think often arises from exciting it where there is Congestion in the Brain.

2 Under Mechanical Stimuli I include Exercise & all Causes of Impulse. The last is most commonly to be spoke of as affecting reflex Sensation & the only Case I have to speak of is what is called Friction. Thus we can understand in no Way but from the alternate Motion proving a Stimulus to the sanguiferous system & increasing the Determination to the surface & increasing Perspiration &c. I shall not say where this may be of Service but is particularly so joined with warm Bathing as practised in Asia. I seldom see its good Effects here as we apply it improperly dry where it must be very gentle or very long continued.

3 Chemical Acids or strictly Stimulants. How great Variety of Matter is employed & we can scarce see the Connection of them & I here entirely trust to Experience as I do not see any Propriety in any of them more than others a priori as Remedies. Physicians have been satisfied by finding the Action of mechanical Acid but I could easily shew that this cannot apply to saline Matters from a Notion of these Figures taken entirely from their Figures & nothing can be more widant than that Solution does not depend on Figure & from Observation.

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Of the sensitive Plants, it is evident that there is an Action of certain ethereal Matter very different from any thing spoke of in the Corpuscularian Philosophy & I have hinted at something similar to ordinary solution of a Union of various Others & hinted at this in the Case of Smell & Taste & also that there may be some Cases as we see elsewhere of one Ether repelling another. Tho we can

1st Every saline Matter soluble in Water evidently is an Acid with respect to us especially the acid & alkali the simple Bodies & they corrode the Parts & may be supposed to destroy the Other united with the solid Parts but the neutrals dont corrode & they must have some different Operation. Some of them seem to act as Sedatives or Refrigerants, some of them more remarkably so than others. Common Salt appears the most pure Stimulus while others of them seem to require a Modification of the Nerves acting on the Stomach.

2^d A great Number of Oils are stimulants all those that are acid to the Taste or odorous & hence most of

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the essential Oils & to these may be joined the Chymical Productions of the empyreumatic & ethereal Oils & here the same Doubts lie that in many Chymists say Oil is naturally Bland & the acrimony may be supposed depending on a saline Matter tho' it has not been discovered.

3 Resinous Matters they lead us to think that the Acrimony may always be saline as they in the form of Balsam appear composed of Oil & a saline Matter & in the Class of the Tetradynamia the same appears as they seem to contain a volatile Alkali.

4 Various animal & mineral & some vegetable Substances peculiar. They all seem to contain saline Substances especially the two first tho' they are not clearly proved, & as many of these are entirely poisonous it would give us a Difficulty of resolving Sedatives to a saline Nature.

A Doubt remains with regard to Bitters very peculiar. They all contain an Oil but whether their Operation depends on this or there saline Matter I am uncertain & especially as they act both as Stimulants & Sedatives.

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The Operation of Stimuli is very extensive both on the Part & the Sensorium & on the whole sanguiferous System. They operate especially on the Part they are applied to & by that on the sanguiferous System & I think it is probable that they act on the Sensorium by the Pain they produce as in the Stomach but some of their Sedative & antispasmodic Effects shew their immediate Action on the Sensorium. As their Effects are so many we are much limited in their Use as we are not certain as to the Degree of their Stimulus & their Sedative power. The Volatile Stimuli are mostly topical in their Effects & are momentary, if ever they are general they must be in large Quantity & hence frequently repeated. The general Effect of most Stimuli depends on the Topical, it acts on the nervous System but most on the sanguiferous. They differ as their Effects are transitory or permanent. The more they act topically, they are more permanent & less when general, & hence the general may be most frequently repeated. The Topical Effects of Stimulants are Evacuations, as they operate on Excretories & I think if they are applied to excretories

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they may all have this Effect, in place of the Notion
 of specific Stimuli adapted to particular Organs only &
 I think all Appearance of specific Stimuli may be
 explained in another Way: The Chief Use of
 Stimulants are as Evacuants & we are at a loss for a
 general Stimulus in Palsy that does not disturb
 us by its topical Effects. In the Case of Fever where
 the sanguiferous System is greatly excited before it is
 removed we should think of the Use of Stimuli, but
 this has long been tried & commonly of pernicious
 Effects. If ~~ever~~ they are here admissible we are
 confined to the more general & transitory Stimuli
 accompanied at the same time by an antispasmodic
 Power.

Sedantia or means of Diminishing the force of
 Motion in the System. There are many more Occa-
 sions for this Head than that of Stimulants tenfold
 one. The Powers here are very great but I think
 they may easily be reduced to three Heads.

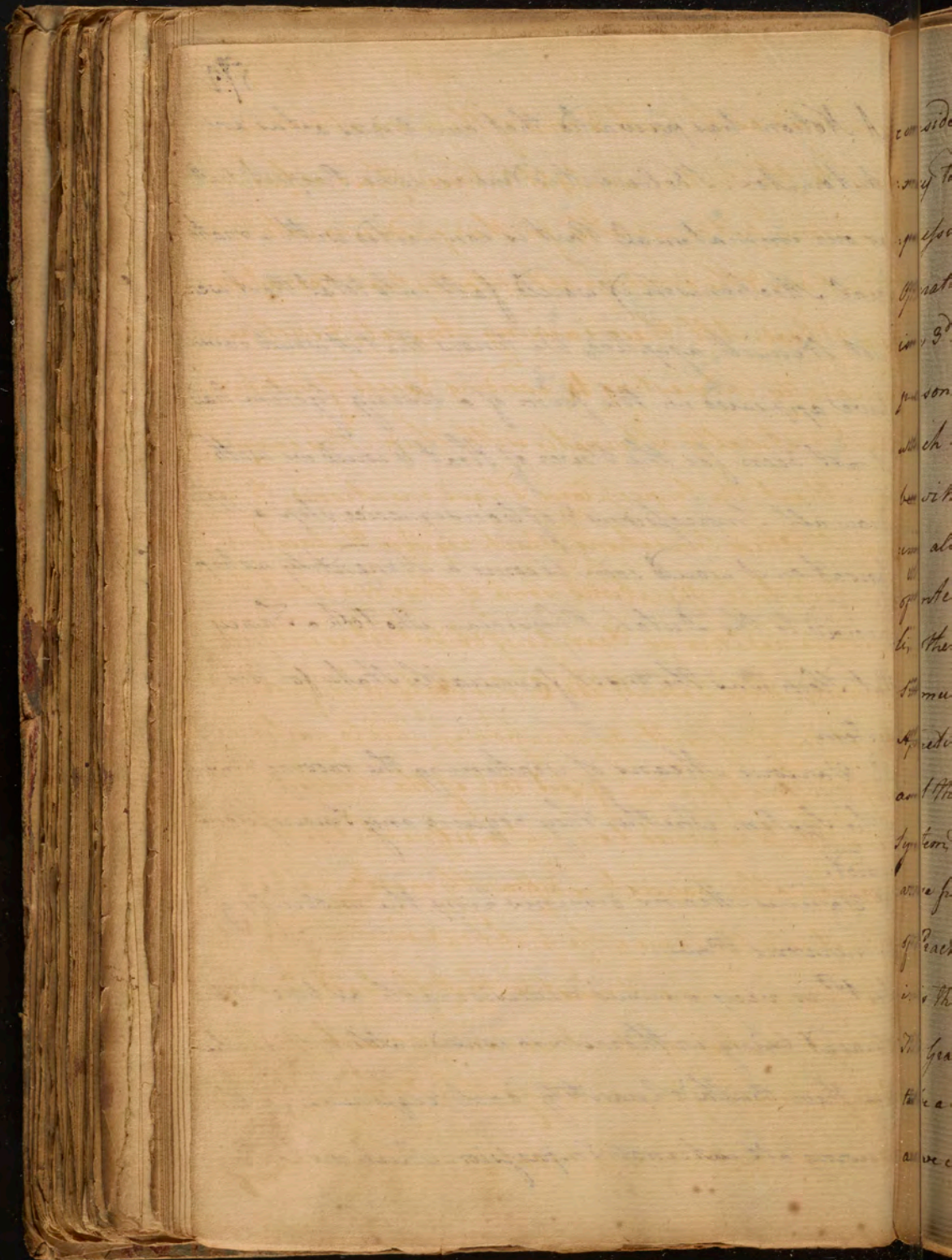
1st The withdrawing the ordinary Stimuli from the System.

A Notion has prevailed that our Bodies act as an Automaton; I believe it is true in some Respects, but as our immaterial Part is connected with a material Mechanism if would fall into total Rest were not Stimuli applied. We know that it would never have appeared in the form of a living System had it not been for the Power of Heat & would we withdraw all Impressions & of consequence stop all sensation it would soon become a Nonentity as happened to the Dutch Physician who took a Fancy that Sleep was the most favourable State for his System.

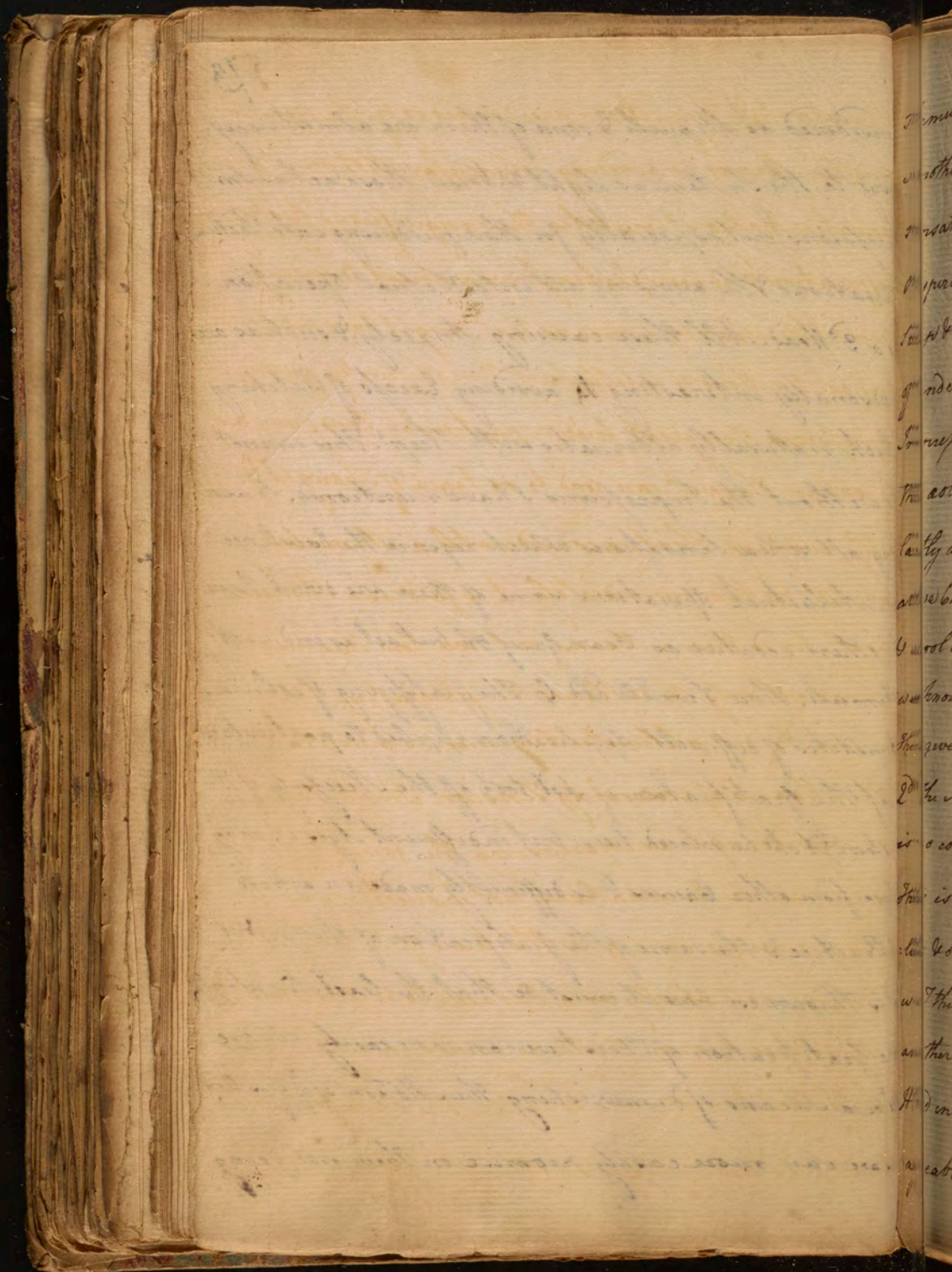
2^d Various Means of weakening the moving Power of the System whether they require any Impressions or not.

3^d Various Means diminishing the mobility of the nervous Power.

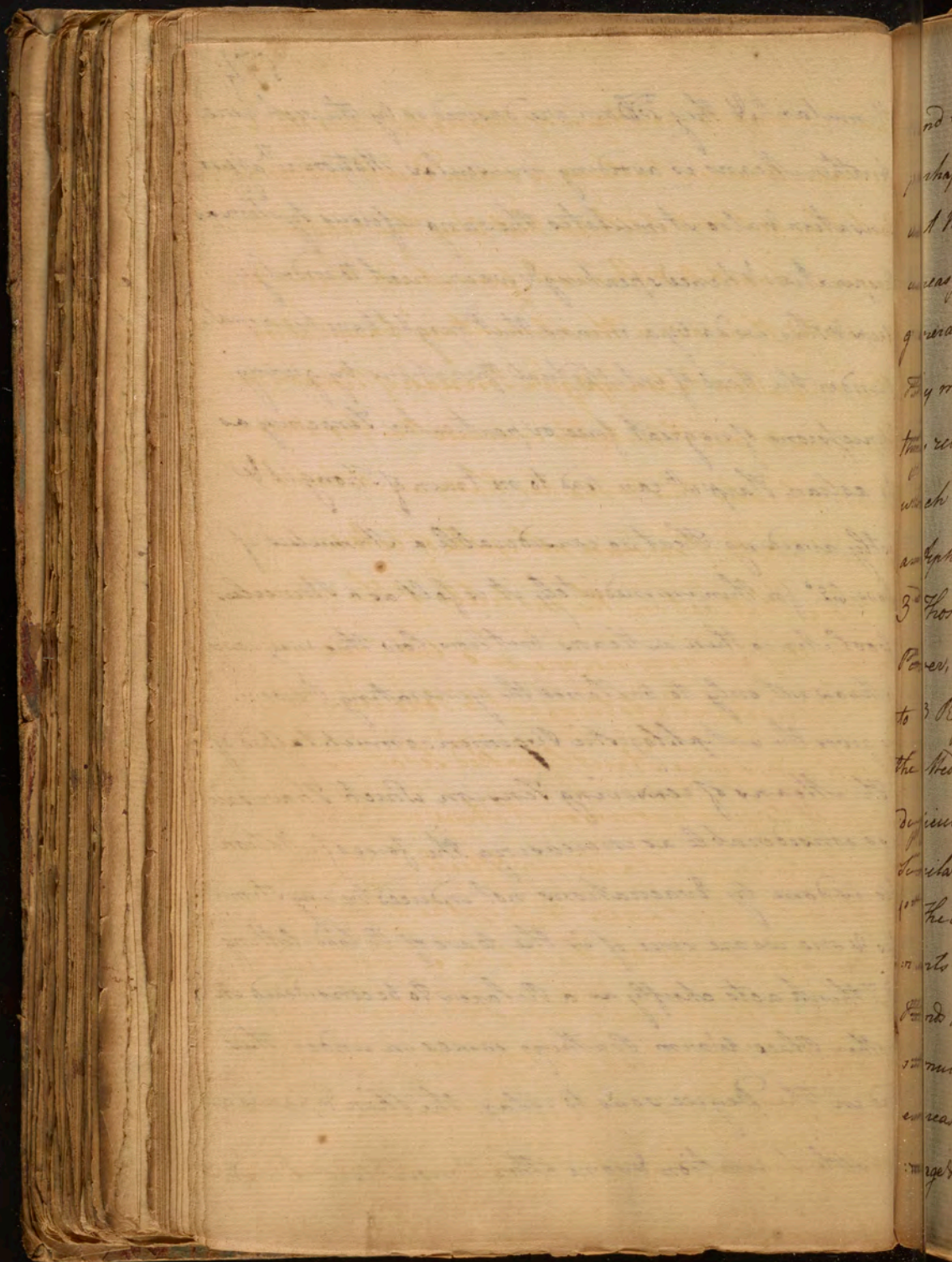
The 1st is very various & considerable as by 1st The Aliment being withdrawn so considerable a Stimulus from their Bulk & Quantity daily required. 2^d withdrawing all external Impression which are to be



considered as Stimuli & some of them are almost necessary to the System as Light & Noise. These act as Impressions but especially for their producing intellectual Operations & the avoiding all intellectual Operation is a 3^d Head. All these causing Anxiety, & such as are personally interesting to avoiding Excess of Watching (which naturally alternates with Sleep). This cannot be without the Impressions I have mentioned. & avoiding all reflex Sensations which require the Existence of intellectual Operations some of these are direct Stimuli, others sedative as Fear, Grief &c but act as indirect Stimuli. Here I would add & The gratifying of solicitous Appetites of difficult Application applied to particulars as if the Gratification of Lust took off the Necessity of the System, it sh^d be placed here but indifferent Ages it may arise from other Causes & is difficultly made an article of Practice & the same of the Gratification of Hunger & if it is thrown in here it must be that the least stimulant of the Gratification of Thirst we can more easily alledge to be a Means of diminishing the Motion of the System as we can more easily promise on their not being De-



Stimulant, & they seldom are desired so by the sick here.
 Another Means is avoiding muscular Motion & affect
 sensation & also stimulates the sanguiferous system as
 Respiration & hence speaking. & we are next to indulge
 Sleep & this we do by a means that ought have been spoke
 of under the Head of intellectual Operations by giving
 Impressions of no great force or particular Tendency as
 the Arabian Harpth can lead to no train of Thought &
 lastly avoiding Heat so considerable a Stimulus if
 above 62° for then immediately it is felt as a Stimulus
 & Cool Air is then a Means but how low this may come
 we know not only to ballance the generating Power.
 This gives the antiphlogistic Regimen so much talked of.
 2^d The Means of removing Tension which I have said
 is so considerable as increasing the force of Motion.
 This is done by Evacuations not induced by any Stimulus
 & one we are sure of is the case of Blood-letting
 & I think acts chiefly as a Relaxer to be considered in
 another Place. Warm Bathing comes in under this
 Head in the Degree so as to relax the skin & prove an en-
 deavourable Sensation & some other Impressions constant

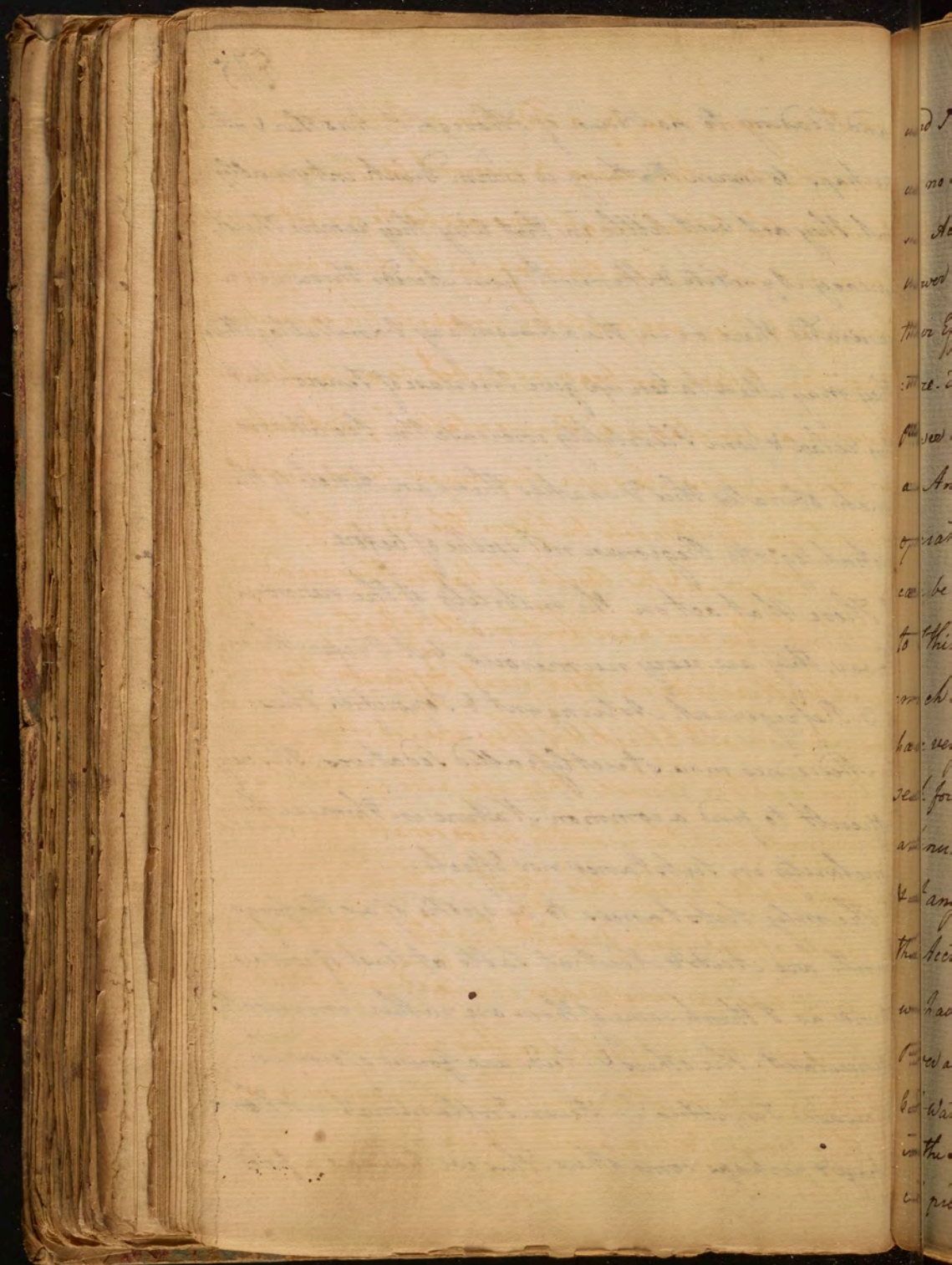


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and leading to no Train of Thought. Another & all too perhaps to warm Bathing is warm Drink internally but they act but little in that Way they remove third, uneasy Appetite & Stimuli from Acids thrown in or generated there or in the alimentary Canal altogether. They may when taken up give Increase of Tension but they relax & from Flexibility increase the Secretions which obviates this & makes them an Article of the antiphlogistic Regimen not spoke of before.

3^d Those that act on the mobility of the nervous Power, they are very numerous but I prefer them to 3 Refrigerant, Astringent & Toposifics. These are the Medicines more strictly called Sedatives. It is very difficult to find a common Nature in them either similarity in Substance nor Effects.

1st The only Substances to be spoke of as Refrigerants are Acids & Neutral Salts at least of certain kinds as I think some of them are rather universally stimulant. The others & Acids are found of use in increased Impetus in Fever, Inflammation & Hemorrhage & perhaps some others. This we have as a fact



and I imagine it is by a Sedative or Refrigerant Power as no other Operation seems to account for these Effects. In Acids the Effect might be ascribed to an astringent Power but not in Neutrals & from the similarity of their Effects they are probably of nearly the same Nature. This Effect has been ascribed to an antozymic Power or a Resistance of Fermentation & particularly as Antiseptics. As such they might be supposed to operate in the Stomach but from the Quantity they can be thrown into the Bulk of Matter they are added to I think they can have but small Effect in the Stomach & afterwards in their great Diffusion they must have very small Effect & if they are sedative we must seek for another Cause. They are also spoken of as attenuants but the Quantity is too small of Neutrals & at any Rate of Acids this Effect could not occur. Of all the Acids offered their diuretic Quality is the best tho we have besides some Proofs of an actually sedative Power as we have the Effects facilitated by taking down Cold Water into the Stomach. They both produce a cold in the Stomach & then a Sweat & we may suppose that cold produces a Reaction of the System & perhaps neutral

This image shows an open, antique book with two facing pages. The paper is significantly aged, appearing yellowish-brown with some darker staining and wear along the edges. Faint, cursive handwriting is visible across both pages, but it is largely illegible due to fading and the condition of the paper. The left page shows the inner binding and the edges of several other pages underneath. On the right edge of the right page, there is a vertical column of text, possibly a marginal note or a list, which is also partially legible. The overall appearance is that of a historical document or a manuscript from an older era.

is the same, tho I dont say that it is by their producing actual Cold as they do it when dissolved.

2^d Another Proof of their sedative Power is that when used as Purgatives they produce Flatulency & Atonia not in Proportion to their Evacuation.

3^d Tho they stimulate we never find it of any Effect nor propagated any Distance which makes it be supposed to be counteracted by a sedative Power.

Mr Alexander finds that a Dose of Nitre diminishes the Frequency of the Pulse, but it immediately returns. The first points out its refrigerant Power but its transitory Stay does not explain its Effects in Fever, the same of cold Water.

astrikerents. It is evident that if the Effect of it is to constringe the Part, it must compress & condense the other, it must take off Mobility & prevent the Effects of Atonia & from this we can explain the Operation of the Bark but it goes further. I used to explain the Power of Lead inducing Palsy from this, but I now do not as it does it not only in the form of Sack. Sat. but in the form of Vapour & even Mercury.

[Faint, illegible handwriting in a cursive script, likely 18th-century English. The text is written in dark ink on aged, slightly discolored paper. The script is dense and fills most of the page area.]

[Faint, illegible handwriting visible on the right edge of the page, continuing from the adjacent page. The script is consistent with the main body of text.]

Does this. I think the sedative Power of several Metals appears singular & can scarcely be referred to acridity. Soporifics are the most considerable Head of Sedatives & I cannot say to how many Heads they should be divided but I confine Myself to Opium. It is known to diminish Sensibility & Irritability in the Part & in the whole System & induces Sleep. Thence we say it diminishes the mobility or excited State of the nervous Power how I shall not attempt to explain only say that it acts immediately on the nervous Power & not on the Blood.

1st This I conclude first from the smallness of Quantity which cannot be supposed a Ferment.

2^d From the short Time required for its Operation

3^d It operates on Parts entirely removed from all Communication with the sanguiferous System as in The Heart of a Frog cut out of the Body.

It is particularly suited to allay Pain from its diminution of Sensibility & Irritability being diminished by it makes it fit for allaying Motions & increased Secretions.

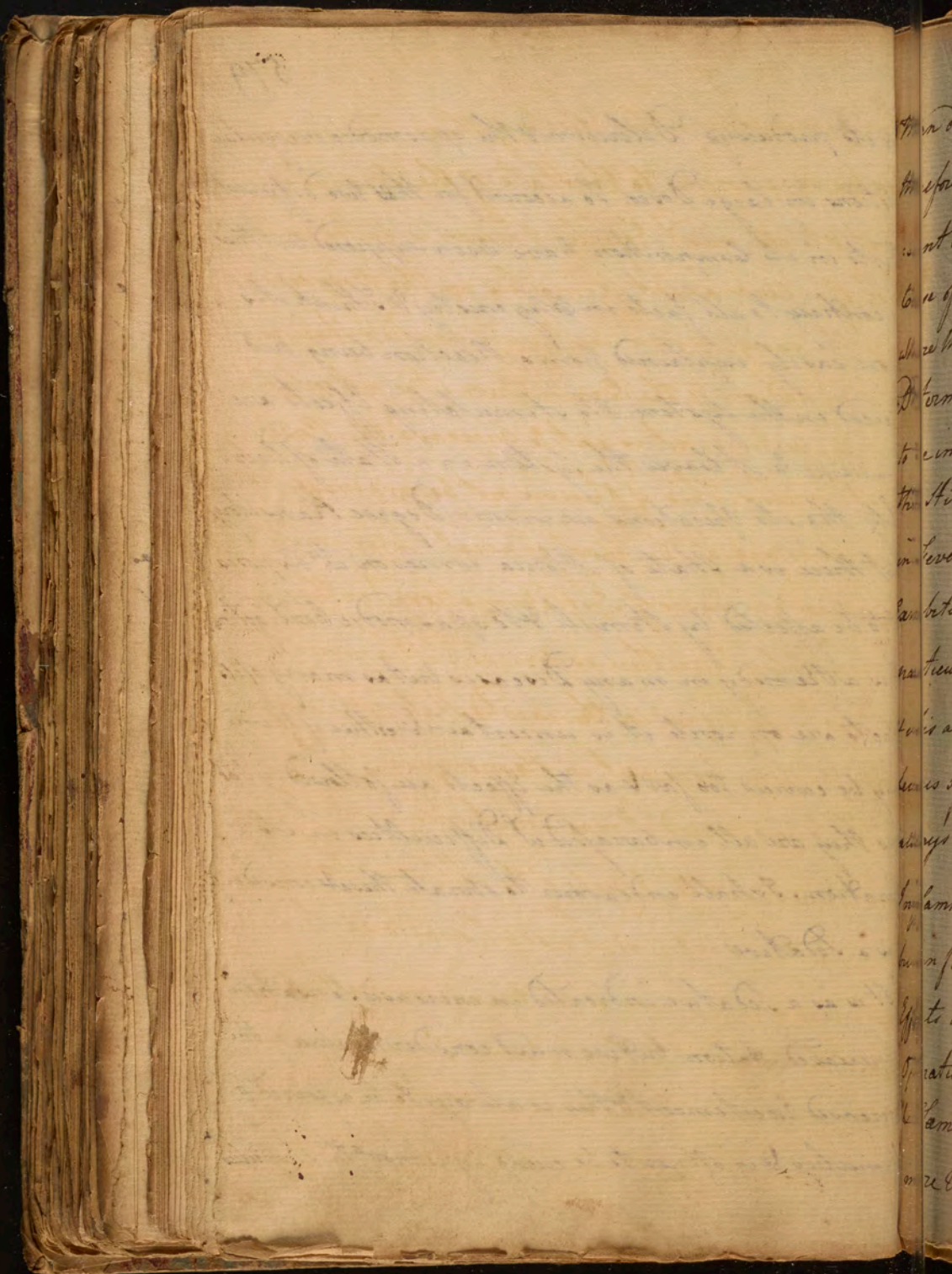
It is however a Stimulus also & from this I would account

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for its producing Delirium & the spasmodic irregular
 Motions in large Doses. To account for these two different
 Parts in its Composition have been supposed but this
 is contrary to all facts in Chemistry & I think it is
 more easily explained from a Reaction being pro-
 duced in the System. Its Stimulating Effects are
 remarkable & it leaves the system in a State of Delir-
 ium. Its Operations are in some Degree transitory
 but there is a State of Abulia comes on & disposes
 it to be affected by Stimuli & to spasmodic Contractions.
 It is a Remedy in many Diseases but as many of its
 Effects are opposite it is uncertain either of them
 may be carried too far & as the Effects are followed by bad
 ones they are all embarrassed & Difficulties in its
 Operation. I shall endeavour to obviate these & consider
 it as a Sedative

It is as a Sedative indicated in increased Sensation &
 increased Action but we must consider the abuse of the
 increased Excitement & this is always to be referred to
 Stimulus & is often to be cured by removing the Stimulus



than diminishing the Effects of them. Opium must
 therefore be according to the State of the Stimulus pre-
 sent & to its usual Effects. Opium is forced in the
 Case of a permanent Stimulus in the Body especially
 where the sanguiferous System is excited & there is a
 Determination to the Brain. Then it is not only likely
 to be ineffectual, but is apt to increase the Power of
 the Stimulus. This of Opium's not being admissible
 in Fever is one of the most general Rules in its
 Exhibition in Cases of Inflammatory Diathesis, &
 particularly where there is Topical Inflammation
 & it is also improper in the excited State of the sangui-
 ferous System frequent in Hemorrhage, but as this
 always to be observed. It may sometimes quench Pain in
 Inflammation & the Effects of the Motion in Hemorrhage
 but in fact we don't find it useful or allowable. Its
 Effects are always more or less transitory & after its
 Operation is over the Irritation of Inflammation
 & Hemorrhage remain & are apt to return with
 more Violence & I think is to be ascribed to its

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giving a greater Irritability to the System & allow
 the former Stimuli to act more powerfully. In this
 Pathologists suppose always that its sedative Power
 relaxes the Blood Vessels & allows the Expansion
 of the Blood w^{ch} may perhaps occur & will add to
 the former Effects. There are however Cases of
 Topical Inflammation in w^{ch} Opium is of Service
 but this is the Case of truly topical Inflammation
 unattended by general Fever. We are sure of some
 such Cases In Rheumatism where there is general
 Fever I only find it gives a momentary Relief & ag-
 gravates the Disease. But where there is no Fever &
 the Pain is purely topical & permanent in the Part
 then I think Opium is of the greatest Service as is
 also the Case in the Tooth ach without Fever. I think
 also it is of Service in many Hemorrhages particu-
 larly of the uterine kind & an often from the State
 of the Part without any general Fever
 I will go further & say that Opium is admissible when
 there is a topical Stimulus as Calculus in the Ureter

of Biliary Ducts. They excite often general Fever & always Inflammation. Blood letting is often required but I always find Opium safe & useful as taking off the Spasm of the Duct & allowing the Passage of the Stone. This is an Exception to a good general Rule given by Dr Young.

It is again a very general Rule that Opium may be employed when the sanguiferous system is not excited but this is too general & I shall consider it under 2 Heads.

In Pain or increased Sensation Opium gives Relief, but it is only temporary unless the Cause be removed but the Pain may cease after the Cause is gone or may be cured by Opium as is the Case of Spasm. Again in the Case where there is an Effort by Nature it may be of Service as in Calculus the Duct will operate in expelling it during the Digestion of Pain. It is also proper where there is no Danger of an increased Impetus of the Fluids or a Rarefaction & this restrains its Use in the Case of Hemorrhagy. If the Pain is violent

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& from a permanent Cause we think we are obliged to give it to give some Relief but it must be when the sedative Powers are considerable & the Stimulus small. as is the Case in Cancer. I don't think that the temporary Relief compensates the Aggravation of the Pains afterwards. It has noxious Effects also that restrict it as it inebriates, weakens & disorders the intellectual Functions: to this an Observation of Dr Young's is to be applied that in Cancer it had the Effect of doing this & increasing the Pains at last. The Cases in which Opium is indicated are general.

1st Relating to the Functions of the Sensorium itself—
 2^d Increased Motion from the Condition of the moving Fibre itself in the Organs of Motion.

3^d The same in the moving Fibres employed in the secretions. As to the first I need not say that it is included in Phrenitis & ordinary Delirium but I speak of Mania where some speak of it is highly pernicious & there as the only effectual Medicine we can use. I will compromise this & say that wherever there is fullness & frequency of Pulse at the Appearance of the

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Delirium feror it is improper but where there are
 none of these or especially where they have been removed
 I think a full Dose of Opium is greatly to be depended
 upon & we should employ it so as to get its full sedative
 Effects & manias require a very great one & from Ob-
 servation of all Practitioners say on this I always
 find the good Effect arise from it when it produces
 sleep & given sometimes to the Quantity of 9[℥] xv in
 the 24 Hours

2 Increased Motion from the moving fibre its self.
 This includes Convulsion & Spasm & I observe that
 whenever these continue for any length of time they
 are of service as in Epileptic Fits we often find no time
 to give them as we know in Tetanus.

The only Cases of these in w^h we are restricted is
 in the Case where there is Palsy or Fever.

In the first the Excitement is diminished & in
 the other I have already spoke of.

It is of Use in the Repetition of such Disorders de-
 pending on Atonia whic is not easily explained. I re-
 member to say here that Opium when it takes off the

Excitement of the System may operate as Cold & give
a more firm excitement & a more durable Tension.

I think this probably occurs where the stimulant
& sedative Powers concur tho of this I am uncertain
but of the first Operation of it should come in when
the Atonia should occur & if the Atonia comes on,
then the sedative Power is passing off it may in-
crease the Disease as we sometimes find the Case
in Epilepsy where it is apt to induce Palsy unless
given at the exact Period when the Return should
happen, & is particularly pernicious when from a
permanent Cause.

3. Increased Action in the moving Fibres employed in
the various Excretions. We find that Opium can lessen
the Action of the Vessels & diminish the Secretions
but cannot be given when connected with Fever of
the excited State of the whole System as is the Case
of sweating who is difficultly & commonly in Danger
suppressed by Opium & is commonly increased. A 2^d
Case is when the Evacuation can only be thrown out

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by that Excretion & then the Stimulus is accumu-
 lated as is the Case in morbid Matter in the Intes-
 tines as is the Case in the first Stage of Cholera
 where there is so great a Quantity of Bile in the pri-
 ma Væ. There is a Doubt when it should be
 employed in Dysentery. I think this Disease
 is always more or less founded on Fever & when
 it is attended wth Fever at the Time it is improper.
 Again if it is considered as depending on Acrimony
 in the Intestines, I imagine this should never
 hinder its Use as it alleviates Pain, takes off the
 spasmodic Constrictions of the Intestines & I think
 the Operation of Opium is very different from other
 astringents as its Effects are more transitory & it
 does not while it cures Spasms stop the Peristaltic
 Motion of the Guts or the Excretions from them. I
 imagine the common Source of Acrimony is the Change
 of the Secretion of the mucous Glands of the Intestines
 I think it would even remove this as we find often in the

Cause of Cough, where an acid Liquor is poured forth
by the Use of Opium it is retained & becomes more
bland. Besides this in Dysentery I think the spas-
modic Contractions often retard the solid Parts of
the Faeces where the Mucus passes by stool which is
the Cause of Sybols & I think this is cured by the
Use of Opium. As suppressed Evacuation often
occurs from a Spasm in the Excretories & so Opium
may be a means of inducing suppressed Secretion as
well as restraining a superfluous Discharge.

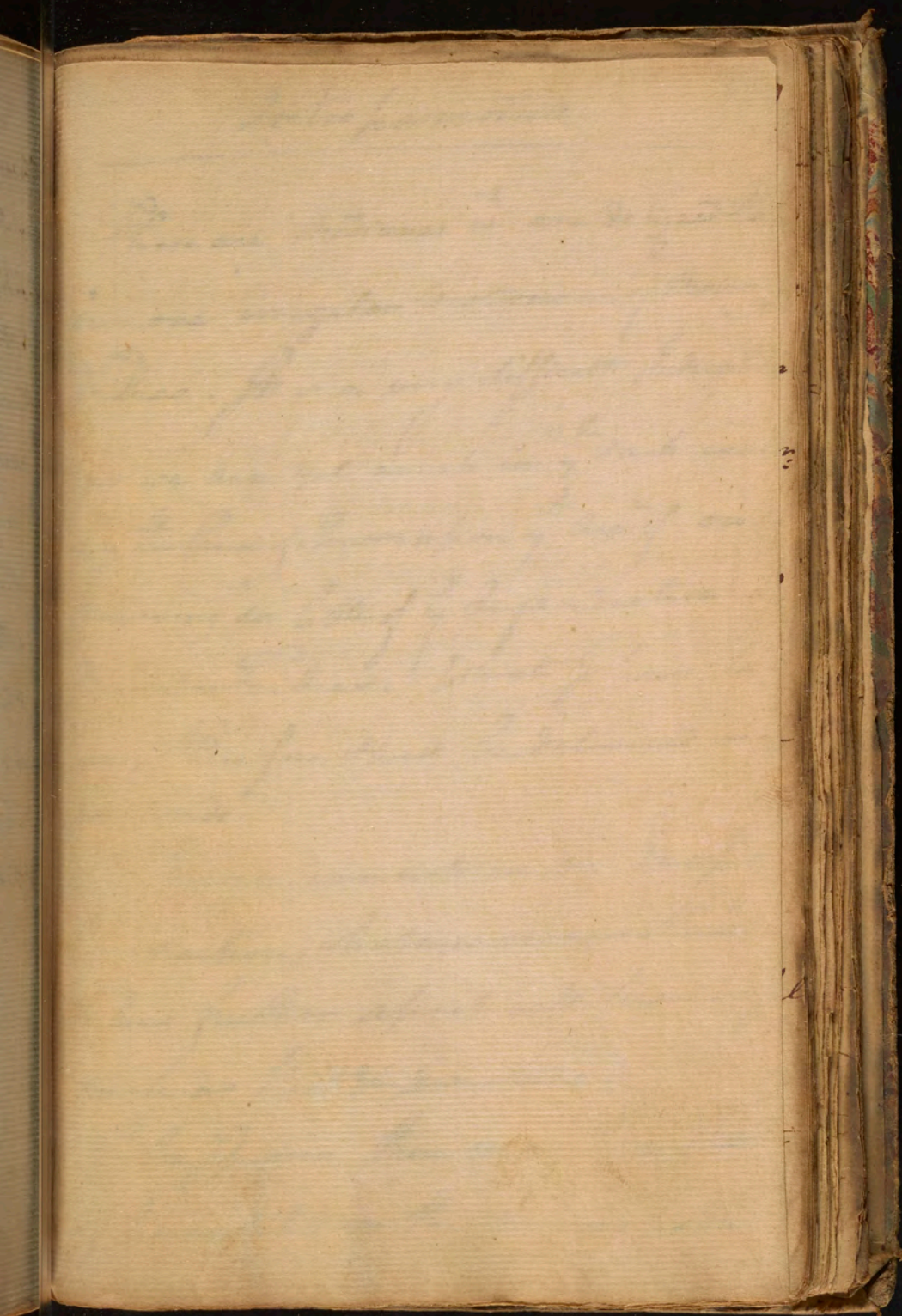
Many People labouring under a nephritic Fit have
the Pain stop when it passes along the Course of the
Ureter tho no Stone is voided but a Strangury is ge-
nerally brought on which must be from the Stones
having found its Way to the neck of the Bladder
& proving a Stimulus. Opium given here allows
the Urine to be accumulated & often the Stone is passed
along with it. With regard to the stimulating Power
of Opium, it is clearly proved from Experiment & may
be used wherever the exciting the sanguiferous System

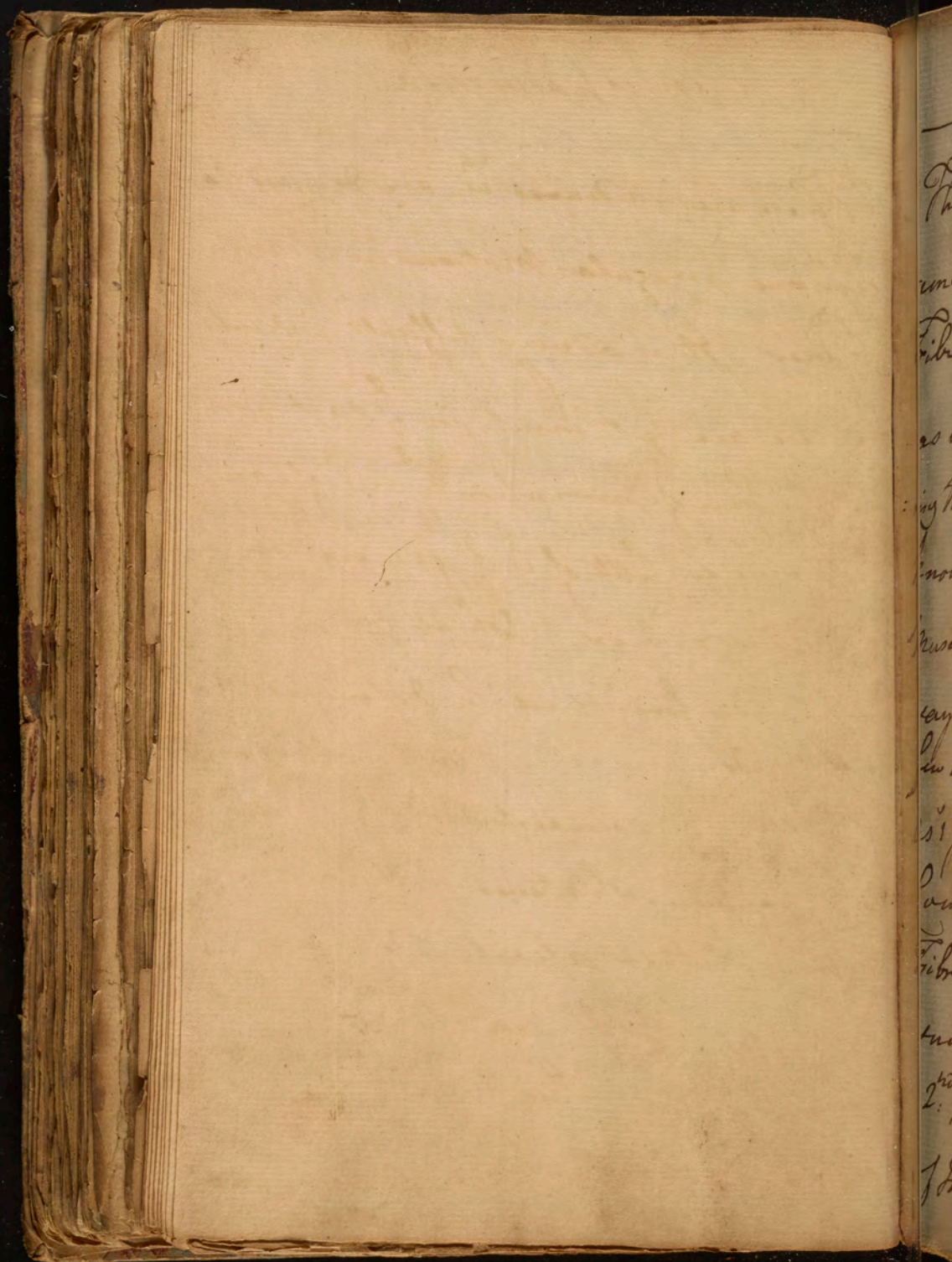
[Faint, illegible handwriting in a cursive script, likely from the 18th or 19th century. The text is written in dark ink on aged, slightly discolored paper.]

[Faint, illegible handwriting visible on the right edge of the page, continuing from the previous page or as a separate entry.]

is allowable & where we fear no Harm from its
sedative Power as we do in the Case of Palsy.

As a Cordial however I think its Use must be con-
fined to those who are accustomed to it & so as we can
upon the large Quantity give it at different Times.
This is rarely practised in this Country, but Wine
is used in its Place. It has been given to cure
Intermittents & its Effects ascribed to its Stimulus
but I rather think they are so from its operating
Stomach & by that removing Spasms & I think its Use
to People called of a nervous Habit is to be ascribed
to this & I imagine is rather from its sedative than
stimulating Effects.





These are Medicines w^{ch} are designed to
remove irregular Motions in y^e moving
Fibres. It is a very difficult Indication
as we are yet much in y^e dark conceiv-
ing the Cause of Spasm upon y^e Acc^t of our
knowing so little of y^e Organization of
Muscular Fibres. What I have to
say therefore shall be delivered in a
few words.

As Spasm consists in an heap of
Contraction. whatever removes these
Fibres further apart will prove useful
such as Heat & Moisture.

2nd In Spasm there may be a State
of Immobility in the Nervous power

Every thing therefore if recovers the
Mobility of the nervous power will prove
Antispasmodic.

3.rd Spasm often depends on an Over-
stretching of Muscular Fibres. the Cause
of Inflammat.ⁿ can only be derived from
this. This is Congestion w^h attends it
sufficiently prove. Blood letting removes
this. & thus proves Antispasmodic.

4.th Spasm depends upon stimuli^{acting} on
particular parts. Whatever therefore
removes these will act as Antispasmo-
dic. such as all Sedative medicines.

Spasm arising from Cause 4.th is often
cured by exciting a stimulus in another

[Faint, illegible handwriting in cursive script, likely a historical manuscript or letter.]

[Faint, illegible handwriting visible on the right edge of the page, possibly from the reverse side or an adjacent page.]

part of the body or by exciting some
Passion of the mind. May not Solis-
ter & Antieries act in this way only?

6.th Atonia often lays ^e Foundation for
Spasm. Astringents remove this
Atonia, & thus prove Antispasmodic,
either applied universally or topically
according to the Seat of the Atonia.

7.th Spasm depending on Cause 6.th are
cured by Stimulants especially when
it is seated in the Alimentari^y Canal.
we prove their usefulness in these Cases
from Flatul^y being discharged (which
always arises from Spasm) immediately
after the taking of Antispasmodics. The

Impulsion of Filatus is in same mea-
sure a Test of an Antispasmodic Medicine.

all Antispasmodics you see then are
reduced to sedative & stimulating. The
Most powerful Antispasmodics are volatile
Oils such as the Empyreumatic Other -
Camphor Musk Castor ^{the} contain an
Essential Oil on w: ^{the} their virtue depends.

Alcohol proves Antispasmodic from
its sedative virtues. What is volatile Alka-
li? I am at a Loss to determine which
of y^e two Cases it belongs to. Most of
Antispasmodics are a Combination of
sedative & stimulat^g Qualities.

Antiquarian

The first of these is the
 discovery of the remains of
 the ancient city of Babylon
 in the year 1847. The
 ruins of the city were
 discovered by the British
 Consul, Mr. Loftus, who
 was on a mission to the
 East. He discovered the
 ruins of the city of
 Babylon, which was
 founded by the Babylonians
 in the year 2319 B.C.
 The ruins of the city
 were discovered by the
 British Consul, Mr. Loftus,
 who was on a mission to
 the East. He discovered
 the ruins of the city of
 Babylon, which was
 founded by the Babylonians
 in the year 2319 B.C.

II. De Morbis Fluidorum.

The Pathology of $\frac{2}{3}$ Fluids is involved in great Darkness. I can therefore offer only a few Conjectures on them. They are of but little consequence & are in general more or less connected ^{to} & dependant upon the State of the Solids. we are acquainted wth but few Medicines that Operate on the Fluids primarily. I shall therefore discuss them shortly.

When the Fluids are too viscid Attenuating Medicines are indicated. But how is this viscosity produced & in w^h Cases does it take place? For my part I know no

1845-1846

The History of

... in front of the ...

...and a few ...

Handwritten text, likely bleed-through from the reverse side of the page.

proof of Lentor in the blood. if it even
does exist it must be in $\frac{2}{2}$ Coagulable Lymph.
but we have no proof of such a viscosity
even in this part of the blood. The
natural Consistence of the blood may
be lessened by water, but in $\frac{2}{2}$ Body
I doubt whether water ever acts in this
way, for it always runs off as soon
as ^{it is} poured into $\frac{2}{2}$ System according to w.
I said before. Neutral salts have been
supposed to thin the blood, but when a
salt superabounds, in $\frac{2}{2}$ serum it may
induce a morbid Tendency of them, but
I believe salts never can be introduced
into the Body in sufficiently antities to
Attenuate the blood. how absurd is it

I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines.
 I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines.
 I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines.

to suppose $\mathfrak{z}\text{ij}$ of Nitre given in 24 hours
(for no Stomach can take more in that
time) can thin several pounds of Blood?
- Little of it mixes wth the Blood, but is
washed out as fast as it is taken in. Great
Common Salt dissolves the Blood. This we
prove from $\frac{1}{2}$ Jury & Phenomena
attending it, but w^e are $\frac{1}{2}$ Diseases w^{ch}
require such a Medicine? Who would
submit to take it in sufficient Quanti-
ties to produce such Effects? Soap
is said to dissolve the Blood, if it does
it must be by forming a neutral
Salt wth $\frac{1}{2}$ Acid of the Stomach, for Soap
never enters into $\frac{1}{2}$ Blood in an uncon-
pounded State. Alkaline Salts are the

Chrysomelidae

[The text in this block is extremely faint and illegible, appearing to be a list or a series of entries.]

most powerful Attenuants we have,
but these are seldom introduced in
a sufficient Quantity to thin^g Blood.
if they were they w^d be neutralised by
of Soap in the Stomach. Here I w^d Ob-
serve that, many have supposed y^t Attenu-
ants dissolve Concretions in excretory vessels,
such as the stone in y^e bladder. perhaps
y^e alkaline salts after being diffused may
again be concentrated in y^e Urina: & y^e pos-
sible, & thus dissolve stony matters, but
we have no Reason to suppose that
any Attenuants whatever can possibly
act on any other Excretory vessel in the
Body. May I doubt whether there ever
was a stone dissolved in the bladder by

[Faint, mostly illegible handwritten text in cursive script, likely from a 17th or 18th-century manuscript. The text appears to be a letter or a formal document, with some words like "I have" and "I am" visible.]

[Faint handwritten text visible on the right edge of the page, possibly from the reverse side or an adjacent page.]

any Medicine whatever. We have ^{often} seen several hundred pounds of Soap & Lime water taken to no purpose in Cases of Stone, for Altho' Relief has been obtained yet dissections have showed us the stone present in the Bladder as large as ever.

Attorney General

My Dear Sir
 I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the case of the *United States vs. [illegible]* and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Yours, [illegible]

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It is hard to tell when a Morbid Feruity
 takes place in the Fluids. It occurs
 only in those Cases where all ^{the} Functions
 are Obstructed as in ^{the} ~~the~~ Ferury. But even
 here Inspiring Medicines can do
 nothing. The Cure of it must be attempted
 by Evacuations, & by such Aliment as
 evolve but little saline Matter, & afford
 a great deal of viscid nourishment.
 All vegetables are of this nature &
 hence their usefulness in the Ferury. How
 far are Fish - the Amphibia - and
 young Flesh disposed to evolve saline
 Matter? are they less so than other
 Animal Substances? I ~~leave~~ ^{leave} this
 Question to ^{the} Investigation.

Demulcents are such Medicines as render
Acrimony innocent without destroying
it: This Indication is answered 1st by
Diffusion, 2nd by Enviscating & covering
Acrimony. The most corrosive Acids we
see are rendered inactive by being
mixed wth a little Oil. all Demul:
cent Medicines are 1st water, 2nd Mucilage
& 3rd Oil. 1st water not only diffuses
but carries off Acrimony from ^{the} fluids.
- I have read Instances of ^{the} Venereal
Disease, ^{being} cured by a plentiful use of water,
but I am very doubtful of its virtues
in specific Acrimony
2nd Mucilages are much altered by ^{the}

Quarantine

Quarantine is a place where ships and their crews are kept for a certain period of time, usually 30 days, to prevent the spread of contagious diseases. The purpose of quarantine is to protect the general population from infection by isolating those who may be carriers of the disease. During this time, the crew and passengers are monitored for any signs of illness and are provided with food and shelter. If any cases of disease are detected, the entire group may be isolated and treated. Quarantine is a crucial public health measure that has been used for centuries to control the spread of infectious diseases.

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assimilating powers, & therefore seldom
enter the blood so as to produce any
Effects there. Vegetables especially of a
bland viscid nature evolve their saline
matter but slowly & therefore may
tend to obtund Acrimony in ^{the} blood in
a small degree.

3.^d Bil. This never appears formally
in the blood, nor can it act as an oily
Demulcent in the body. By evolving
its saline matters slowly it may
tend to give the fluid of a denser Consis-
tence. The Bil deposited in ^{the} cellular
membrane is designed only to be absorbed
in Liver: where the Tendency of the
Fluid is to an acid state. I have
no great Dependance upon it as a Demulcent.

Conclusions

The following are the conclusions
 reached by the committee
 after a careful consideration
 of the various reports
 and documents submitted
 to them.

1. The committee
 is of the opinion
 that the
 present
 state of
 affairs
 is such
 as to
 require
 the
 most
 careful
 attention
 of
 the
 government.
 2. It is
 recommended
 that
 the
 committee
 be
 authorized
 to
 make
 such
 further
 inquiries
 as
 may
 be
 deemed
 necessary.
 3. The
 committee
 is
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 as
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 government.

℞ij of oil taken in ℞xxiv hours Jam sure
can do but little in Catarrh & acid
Defluxions. however much Physicians
depend upon it.

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It is hard to condemn upon particu-
lar Cerimonies. Vegetables form a
great part of our Diet, & these are dis-
posed to Acidity from y^r nature & from
the Operation of the Stomach upon them,
but the System is provided wth powers
of Obviating it. neither have we
any Reason to suppose an Alkaline
Cerimony ever present except in stag-
nating Fluids. I shall therefore pass over
every thing y^e relates to particular
Cerimonies, & proceed to speak of
y^e 2^d thing proposed viz: of evacuating
Humors from the Body.

[Faint, illegible handwriting on aged paper, likely bleed-through from the reverse side. The text is arranged in approximately 15 horizontal lines.]

[Partial view of the adjacent page on the right, showing handwritten notes.]

2	Bo
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2^o Evacuare

A Humorem unicuique nuncup.

Evacuatio may be bro't on

- 1^o By a greater Quantity of Fluids being determined to a particular Organ.
- 2nd By the Fluids being more or less prepared to pass off by a particular Function.
- 3rd By exciting the Action of γ secretory or excretory Vessels.
- 4th The Determination of a greater Quantity of Fluids may be bro't on by
 - 1^o increasing the Impetus of γ Blood
 - 2nd by increasing its Quantity. Secretions are seldom increased by γ first.

[Faint, illegible handwriting in cursive script, likely a letter or manuscript page.]

[Faint, illegible handwriting visible on the right edge of the page, possibly from the reverse side or an adjacent page.]

I know of none but Perspiration
^{is} increased by $\frac{1}{2}$ velocity of $\frac{1}{2}$
 Blood being increased. the second
 takes place ^{the} w: Regard to wry secretion
 in the system. they are always increa-
 sed in proportion to $\frac{1}{2}$ Quantity of
 Fluids ^{bro't} to them ^{is} always keeping
 in order to bring ~~about~~ about $\frac{1}{2}$ increa-
 sed secretion we wish for.

2nd secretions are increased by $\frac{1}{2}$
 Fluids being better prepared to pass
 off by the secretory Organs. It is hard
 to speak confidently here. we know too
 little of secretions to be able to induce
 changes in their natures. Water in-
 creases $\frac{1}{2}$ secretion of Urine & Perspiration

450

[Faint handwritten notes, possibly bleed-through from the reverse side.]

by altering ^{their} qualities, but w:
are ^e substances w:^{ch} induce a change
on ^e nature of the saliva - Mucus
Bile? —

3^o By exciting the action of particu-
lar functions. This is to be done

1^o By inducing such a condition of
the System w:^{ch} excites the action of
secretory Organs.

2^o By exciting the action of muscular
parts w:^{ch} press on secretory Organs &

3^o By stimulating substances applied
to the secretory Organs themselves.

1^o This takes place in ^e secretion of
Milk w:^{ch} is not more in ^{an} increased quantity

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

[Faint, illegible handwriting visible on the right edge of the page, possibly from the adjacent page.]

by a particular state of $\frac{1}{2}$ Uterus.
 Bile too is increased by Anger &
 Urine by Other Passions of $\frac{1}{2}$ Mind.
 This manner of exciting $\frac{1}{2}$ secre-
 tions is seldom in our power, nor can
 it be reduced to certain Rules.

2nd Muscular Fibres altho' they are
 contiguous to Glands are ^{not} so easily
 excited as we could wish. $\frac{1}{2}$ Quan-
 tity of Saliva is indeed increased by
 mastication. perhaps the Operation
 of Purges depends too only by their
 increasing the Peristaltic Motion of
 $\frac{1}{2}$ Guts w^{ch} ~~causes~~ causes them to pour
 out

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

[Faint, illegible handwriting visible on the right edge of the page, possibly from the adjacent page.]

a greater Quantity of $\frac{1}{4}$ Lignum Sec-
to by $\frac{1}{4}$ Glands of $\frac{1}{4}$ Intestines.

3.^d The most powerful Method of
exciting the Functions is by applying
stimulating Substances to $\frac{1}{4}$ secretory
Organs. & of this we shall speak chiefly.

But this does not imply that
there are such things as Specific Stimu-
li. Altho' there may appear to be
some Foundation for this Opinion.

For 1.st Anatomy has not pointed
out any different Conditions of partic-
ular Nerves w^{ch} we suppose to be
specifically affected. 2.nd most Acid
Substances affect all $\frac{1}{4}$ gland. alive.

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Purging vomiting & ^{the} Diuresis
are excited by different medicines only
in consequence of their being applied more
or less primarily or in greater or less
quantities.

I shall begin wth speaking of the
functions of Mucus. this you know
abounds all over the system but
more especially in the mouth & Lungs
& Bronchia. Irrhines therefore are
indicated in all cases of Obstructed Mu-
cus wthout Inflammation as well as in all
Congestion^{er} of neighboring parts such
as in the Head &ck. Tooth &ck &c.
- Ophthalmia - Gutta Serena, Deafness

December

My dear Sir,
 I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the business of the office. I am sorry to hear that you are not well, and hope that you will soon be able to resume your duties. I have been thinking of writing to you for some time, but have been so busy that I have not had time. I am now at the office, and will be glad to see you when you are able to come. I am, Sir, very respectfully,
 Your obedient servant,
 J. M. Smith

It can in Catarrh & Paralytic Dis-
orders. the means of exciting Inuring
are 1: ^{or} warm Fomentation or the
Streams of warm water especially in
 $\frac{e}{y}$ various Cases of Angina. 2nd by
all $\frac{e}{y}$ variety of Acid Substances th w:
increase Functions especially ~~th~~ those
th w: are most transitory & are
least liable to bring on Inflamⁿ:
- in Obstinate Head-Ache. Amarauro
or the more violent Irrhines may be
used, for by increasing the Quantity
of the Discharge, we obviate any bad
Effects of their Stimulus.

The first of these is the
 the second is the
 the third is the
 the fourth is the
 the fifth is the
 the sixth is the
 the seventh is the
 the eighth is the
 the ninth is the
 the tenth is the
 the eleventh is the
 the twelfth is the
 the thirteenth is the
 the fourteenth is the
 the fifteenth is the
 the sixteenth is the
 the seventeenth is the
 the eighteenth is the
 the nineteenth is the
 the twentieth is the
 the twenty-first is the
 the twenty-second is the
 the twenty-third is the
 the twenty-fourth is the
 the twenty-fifth is the
 the twenty-sixth is the
 the twenty-seventh is the
 the twenty-eighth is the
 the twenty-ninth is the
 the thirtieth is the
 the thirty-first is the
 the thirty-second is the
 the thirty-third is the
 the thirty-fourth is the
 the thirty-fifth is the
 the thirty-sixth is the
 the thirty-seventh is the
 the thirty-eighth is the
 the thirty-ninth is the
 the fortieth is the
 the forty-first is the
 the forty-second is the
 the forty-third is the
 the forty-fourth is the
 the forty-fifth is the
 the forty-sixth is the
 the forty-seventh is the
 the forty-eighth is the
 the forty-ninth is the
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 the fifty-second is the
 the fifty-third is the
 the fifty-fourth is the
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 the fifty-sixth is the
 the fifty-seventh is the
 the fifty-eighth is the
 the fifty-ninth is the
 the sixtieth is the
 the sixty-first is the
 the sixty-second is the
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 the sixty-fourth is the
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 the sixty-seventh is the
 the sixty-eighth is the
 the sixty-ninth is the
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 the seventy-sixth is the
 the seventy-seventh is the
 the seventy-eighth is the
 the seventy-ninth is the
 the eightieth is the
 the eighty-first is the
 the eighty-second is the
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 the eighty-sixth is the
 the eighty-seventh is the
 the eighty-eighth is the
 the eighty-ninth is the
 the ninetieth is the
 the ninety-first is the
 the ninety-second is the
 the ninety-third is the
 the ninety-fourth is the
 the ninety-fifth is the
 the ninety-sixth is the
 the ninety-seventh is the
 the ninety-eighth is the
 the ninety-ninth is the
 the hundredth is the

We know of no Specific Expectorants. those medicines w.^h move Expectorants are of such a nature as to stimulate the stomach Guts & Kidneys, & upon this actⁿ we are ^{then} disappointed of our Intentions in giving them. the Discharge of ^{the} medicines by vomiting or stool may be obviated by giving them in proper Doses & at proper Intervals. Tobacco when dried & boiled loses its vomiting & by longer drying its purgative Qualities & at last becomes Diuretic & Expectorant.

Experiment 2

The object of the present experiment is to determine the effect of the different parts of the human body on the circulation of the blood. For this purpose a person was selected who was perfectly healthy and of a middle age. The experiment was conducted in a room where the temperature was kept at a constant point. The person was placed in a supine position and the circulation of the blood was observed by means of a sphygmograph. The results of the experiment were as follows: The circulation of the blood was found to be normal in all parts of the body. The pulse was regular and of a moderate force. The blood was found to be of a normal color and consistency. The results of the experiment were therefore in accordance with the theory of the circulation of the blood.

End.

This Secretion viz: of Saliva may
be excited by an internal as well as
~~an~~ external medicines. Mercury
is the only medicine that answers
this purpose. I shall therefore briefly
enquire into its Modus Operandi.

It is supposed by some γ : Mercury
acted upon γ body chiefly from its
weight. But this is a wrong supposi-
tion & affects the most general pro-
position in Philosophy w: is that γ :
Quality of Bodies are never chan-
ged by mechanical means, & therefore
do not act mechanically upon Bodies.
- If Mercury acted from its weight

Chapman

The first of the four volumes of the
 works of the late John Chapman
 is a volume of his letters. The
 second volume contains his
 sermons. The third volume
 contains his tracts. The fourth
 volume contains his diary. The
 first volume of the letters is
 divided into two parts. The
 first part contains his letters
 to his friends. The second
 part contains his letters to
 his enemies. The second
 volume of the sermons is
 divided into two parts. The
 first part contains his sermons
 on the subject of the
 Christian's duty. The second
 part contains his sermons
 on the subject of the
 Christian's happiness. The
 third volume of the tracts
 contains his tracts on the
 subject of the Christian's
 duty. The fourth volume
 contains his diary. The
 diary is divided into two
 parts. The first part
 contains his diary from
 1781 to 1785. The second
 part contains his diary
 from 1785 to 1789.

its Effects would always bear some Relation to its Fire, but this is not the Case, for we find it proves more deob-
struent the finer it is made, nor do we ever find it in the Blood formally present. Its Combination wth Salts greatly alters its Operations. The more Acid we add to it, the more we Diminish its Gravity, but wth this, we en-
crease its Virulence in acting upon y^e body, neither do y^e saline preparations of it attenuate the Blood, but on the contrary rather coagulate it, w^{ch} shows that y^e salt rather than y^e Acid acts upon it. Besides the Blood is never dissolved by it. It is never

introduced in sufficient Quantity
for this purpose. I have often
seen Blood drawn from Persons
under a Salivation wth its ordinary
healthy Appearance & sometimes wth
inflammⁿ. Crust.

2nd What determines Mercury to act
upon y^e Salivary Glands? It does
not act specifically upon them¹ from
the ~~the~~ Arguments we formerly used
as y^e Specific Stimuli. 2nd from its ac-
ting upon all the Excretions as well
as the Salivary such as y^e Gutts Kidneys
&c. may we often find it acting
upon these when the Glands secreting

Sialapoga

614

Saliva are not in the least affected.

- Mercury appears to be disposed
to associate w: the Matter of ^{the} Saliva.

- Cantharides we see are disposed
to unite w: ^{the} Matter of the Urine in
the same manner. The Saliva ab-

ounds w: an Ammoniacal salt.

It hence we observe the Salivary
Glands chiefly affected in ^{the} Scurvy.

may not ^{the} I have a Relation
to this Ammoniacal salt of the

Saliva & may not this be the
Reason why the Salivary Glands

are affected in a manner analogous
to the Luxation in a Salivation?

476

the eggs

The copy of the letter to the
 Secretary of the Treasury
 is enclosed in the
 letter to the Secretary of the
 Navy. The letter to the
 Secretary of the Navy is
 enclosed in the letter to the
 Secretary of the Treasury.

Lialazoga

615

The Ammoniacal salt we see when
added to water makes it dissolve
a double quantity of $\frac{1}{2}$ Sublimate
w: show the Relation they have to
One Another.

Furpette Mineral acts as a Lialazoga
merely by stimulating the salivary
glands in its passage into y stomach.
In w: Case is Salivation indi-
cated? In all Cases where we would
wish to induce an entire Change in
the Liquids, or to evacuate Curimo-
ny from the Serum of the Blood in
w: It has its Seat. I do not imagine
that it acts as an Antidote upon any
Curimony especially the venereal

anatomy. for 1st we have no Analogy of it, nor Reason to believe it by Reasonings a priori. 2nd ~~we~~ we never find it cures the Ven Disease ^{the} without exciting a plentiful evacuations.

3rd the more Stimulating we render it, the more successfully we use it.

Hence the superior Usefulness of
 the Solution of Corrosive Sublimate.

4th many Substances w^{ch} we know act only as Evacuants cure the Ven Disease such as ^{the} Guaiac & many American Plants lately found out by the Indians.

Supposing then Evacuations

The only way of the $\frac{2}{4}$ Operation
when is Salivation to be ordered?

I do not think it absolutely necessary
at any time. It exposes the Patient
to many ~~for~~ Inconveniences. I have
seen it performed in an equally short
time by Other evacuations. However
when Salivation can be used ~~for~~
safely, I see no Disadvantage in it. It
may always be at $\frac{2}{4}$ Option of the
Physician.

W: Preparations of $\frac{2}{4}$ are best?

The mild Ones. hence a late
Author has proposed applying it only
in the Form of Unction. From Experience
I can recommend $\frac{2}{4}$ method. -

171

[The page contains several lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side.]

In ² Cases are Diuretics indicated.

1st When the blood abounds wth.

saline matter as in the Scury

depends upon ² Purine of ² Gall

ing blood wth usually passes off by

the kidneys. vegetables are ² best

Diuretics for this purpose.

2nd When water predominates in

the System. I have often said the

blood could not contain an ex-

traordinary quantity of water, but

they are still useful when water

is stagnating or has been congested

as in the Dropsy in which a

The first of the most
 famous of the
 ancient philosophers
 was Pythagoras
 who lived about
 570 years before
 Christ. He was
 born in Samos
 and was educated
 in the sciences
 of the East. He
 was a great
 mathematician
 and a great
 philosopher. He
 was the first
 to teach that
 the soul is
 immortal and
 that it is
 subject to
 the laws of
 nature. He
 was the first
 to teach that
 the universe
 is governed
 by the laws
 of mathematics.
 He was the
 first to teach
 that the soul
 is immortal
 and that it
 is subject
 to the laws
 of nature.

scanty secretion of urine takes place, & w^{ch} perhaps originally occasioned the Disease. But how do Diuretics operate in Dropsies? - there is a correspondence between secretion & absorption, & by promoting a watery secretion we excite the action of absorption. in w^h manner no one has yet said. but we are sure of the fact. I have seen vomiting when continued for 24 hours cure an Anasarca.

3rd Diuretics are indicated when the urine is suppressed or when the

[Faint, illegible handwriting in a cursive script, likely from the 18th or 19th century. The text is written in dark ink on aged, yellowed paper.]

[Faint, illegible handwriting visible on the right edge of the page, continuing from the adjacent page.]

Primary passages are Obstructed,
unless the Obstruction is of long Continu-
ance or very much fixed. These are the
chief Cases in ^{wh} Diuretics are indica-
ted. Dr. Boerhaave says they are
useful after Concoction is finished
in Acute Diseases, but this is a
Doctrine I know Nothing About.

1st a Diuresis is brought on by
filling the body ^{with} watery Fluids.
2nd By diminishing Perspiration ^{we} we
now carry off $\frac{1}{4}$ more fluids parts
of the blood.

3rd By inducing a sudden Constriction
of the urinary Secretories. Cold

contricts the Urinary Organs ^{ch} w: exites
them in such a manner as to bring
on an increased secretion of Urine.

The best way of applying Cold is to y^e
Extremities especially y^e Feet.

By the Medicines w: are called
Diuretica. These are Saline Matters

by uniting w: y^e th Levity of our
Blood is more immediately disposed
to pass off thro the Kidneys. The

Acids are the least powerful Diuretics

The Muriatic w: is the most volatile
of any of y^e Volatile Acids is the most
Diuretic of any except the Vegeta.

ble. Alkaline salts are more

Diuretic than the Acids especially the
fixed Alkalies. Neutral salts act
as Diuretics & are not liable to
be changed in the stomach. They
may be given in larger Quantities than
any of the Other salts. I believe no
Substance acts as a Diuretic but such
as contain more or less of saline
matter. all those Vegetables^{ch} act
as Diuretics are of an acid volatile
Nature.

I have of no Indication that it is
more difficult to answer than the one
we have been speaking off, as all
Diuretics have likewise the power

Linnæa is a genus of plants in the family
 Linaceæ. It is named after Carl Linnaeus.
 The genus is named in honor of the great
 Swedish naturalist and philosopher.
 The name is derived from the Latin word
 "linum", which means flax. The word
 "æa" is a suffix which is used to denote
 a genus. The name "Linnæa" is therefore
 a Latinized form of the name "Linnaeus".
 The genus is named in honor of the great
 Swedish naturalist and philosopher.
 The name is derived from the Latin word
 "linum", which means flax. The word
 "æa" is a suffix which is used to denote
 a genus. The name "Linnæa" is therefore
 a Latinized form of the name "Linnaeus".

& stimulating the stomach & Intestines.
we must therefore to render them
Diuretic either diminish their dose:
or give them in small doses.
They are apt to be so diffused that it
is necessary to give them pretty strong.
hence the use of Calchicum. Does
Combining Diuretics w: ^{the} Sedatives
Medicines make them answer ~~the~~
better? - I cannot say it does ^{ex}
from my own Experience: -

經

Diaphoretica

1624

In w^h cases are Diaphoretics indica-
ted? 1st when Perspiration is Obstru-
cted but it is hard to tell when this
takes place, or w^h Diseases it induces.
They are generally given in Catarrhs
Pectoris &c. But we have no proofs of
their depending on any acrid matter
being retained in the Body. I believe
they do prove chief by bringing on a
proper Determination to y^e skin.

2nd When an Acrimony prevails in
the System. Acrimonies are mostly
discharged by the skin. this y^e Exan-
themata sufficiently prove. I believe

1845

the venereal Disease might be cured
by plentiful Sweating. Diaphoretics
are useful in all those Cases ~~all~~ of
Humors where we see ^{the} acrimony
rather disposed to pass by ^{the} skin.

When water Abounds in ^{the} system.

But they are not so safe as the
Diuretics in these Cases altho' they
operate in ^{the} same way.

When ^{the} balance of ^{the} system has
been changed or when ^{the} Determination
to the skin has been obstructed. This
is the Case in all Fevers, & hence ^{the} use
of Diaphoretics in febrile Diseases.

The first of these is the
 fact that the British
 government has been
 very much interested
 in the affairs of the
 East India Company
 since the year 1773
 when the British
 government took
 possession of the
 Company's affairs
 and since that time
 the British government
 has been very much
 interested in the
 affairs of the East
 India Company.

But Diaphoretics should be used w:
great Caution here. the skin often re-
mains long dry after ^{the} inhibition of them,
the Lower after the most profuse
sweating.

5th: When the Action of the Lyssem is
torpid. This happens in some cases
in many comatose & paralytic
Diseases where we are sure there is
no Congestion in the Brain.

The Diaphoretic Medicines are
1st: water taken in large Quantities
2nd: Perspiration & sweat may be excited
by all the various means of exciting
the sanguiferous System such as Exercise

1026

with vol. 10.

internal Stimuli ^{at last} w: act only upon y:
Stomach & not directly on y: Heart &
Arteries.

2^d By exciting a Determination to y:
Skin. Heat joined w: Moisture an-
swers this Indication best. Cold likewise

answers this Intention as also Frictions.

By various Matters acting on the
Body so as to relax the surface of
the Skin. Opium & all sedative

Medicines act in this way. Those

Substances likewise th act on y: Stomach

more diaphoretic such as cold water

Neutral salts th are sedative & Refrige-

rant. Metals act in y: same way.

70

Albuquerque

James and Elizabeth

1844

11 In Morbis Liquidum Indicationes
Curative Sunt

2^o A. Tanguinum ~~per~~ evanare per
Imenagoga.

The Uterus is evolved About Puberty.
- the manner of it you will easily
understand from w. was said under
the Head of Nutrition concerning the
Doctrine of Evolution in general. the
Depletion of the uterine vessels leaves
them relaxed w: ~~h~~ disposes them
to pour forth Blood again after a
certain time has been allowed for
its accumulation. this obliges us to
embrace the Doctrine of a partial Pethora

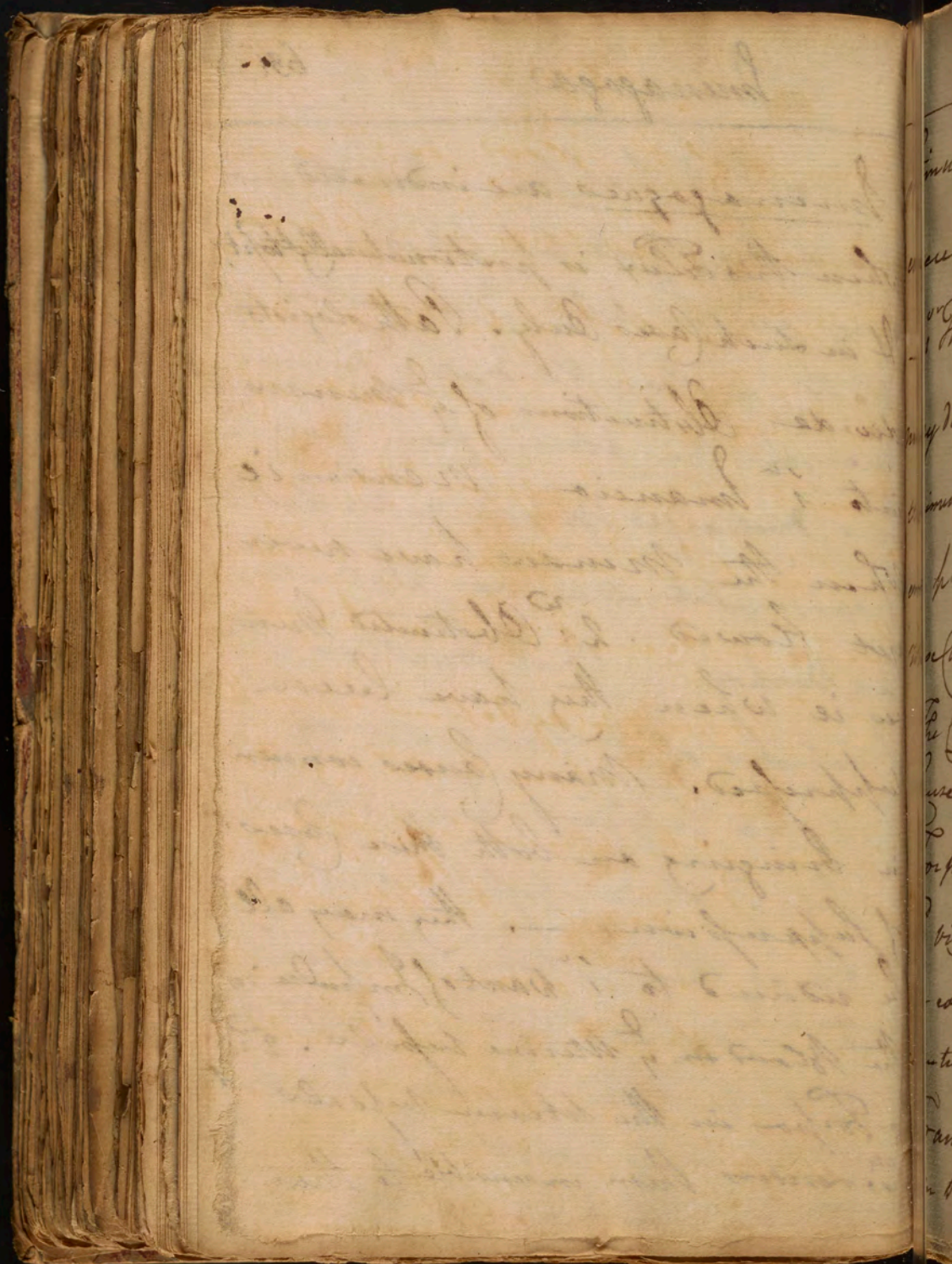
which indeed infers likewise the
Presence of a general Plethora which
goes no further than to give an exact
Fullness & proper Degree of Tension to
the whole System. Why does ^{not} Abstraction
check the Flow of the Menstrues?

Because their Flow does not depend
Upon an Absolute Quantity of
Blood in the System, but upon a
Relative Quantity, & therefore
where Blood is drawn, the Ballance
~~of the System~~ between the Uterus &
the rest of the System is still kept up.
- But again whenever Blood is
evacuated, there we see a Plethora

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

most apt to happen. Menstruous
who are subject to a bleeding of the
nose are troubled wth Congestions of
Blood in their Heads. in y^e same
manner the uterus from having
long discharged blood gets a Habit
of accumulating it wth no Abstraction
can destroy. But Further the
Discharge of the Menstrues is an ac-
tive not a passive Evacuation. -
When y^e uterine vessels are filled
wth Blood their Action is encouraged by
y^e stimulus of the Blood w^{ch} excites them
to discharge it. This you see connects it
wth y^e Nervous System, & acc^{ts} in some
measure for its being periodical. -

Menagogues are indicated
 when this Flux is prematurely lost,
 & in such Cases Only. Pathologists
 divide Obstructions of $\frac{2}{4}$ Menses
 into 1st Imperio Mensium i.e.
 when the Menses have never
 yet flowed. 2nd Obstructed Men-
ses i.e. when they have been
 suppressed. Many Causes concur
 in bringing on both these Cases
 of suppression. — they may all
 be reduced to 1st want of Impulse in
 the Blood in $\frac{2}{4}$ Uterine vessels. 2nd
 a Torpor in the Uterine vessels
 renders them insensible to the



Stimulus of the blood, or 3rd to an
increased Resistance in ^{the} Uterus.

1st The want of Impulse in ^{the} blood
may depend upon a want of
Aliment or weak assimilating powers,
or plentiful evacuations. I believe
these causes Operate but rarely. *

The Chlorosis may depend upon this:
Cause or rather upon the 2nd viz: a
Torpor of the uterine vessels. The
3rd viz: Resistance in the Uterus may
be congenial, or arise from Ob-
struction by ^{it} w. I mean a difficult
Transmission of Blood from a Fault
in the Blood itself, or from a

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

[Faint, illegible handwriting visible on the right edge of the page, possibly from the adjacent page.]

Constriction ^{is} is seated in y^e
simple or moving Fibres. I
believe the Menes are never
Obstructed from a Fault in the
Blood, but by Constriction al-
ways when they are checked from
accidental Causes.

The Means of promoting the
Menses are 1. by restoring the
Quantity of Blood by Aliment^{or}
^{the} strengthening the Assimil^s powers.
2.nd by encreasing the powers of y^e
System in general by the Quality
& Quantity of particular Foods -

Journal

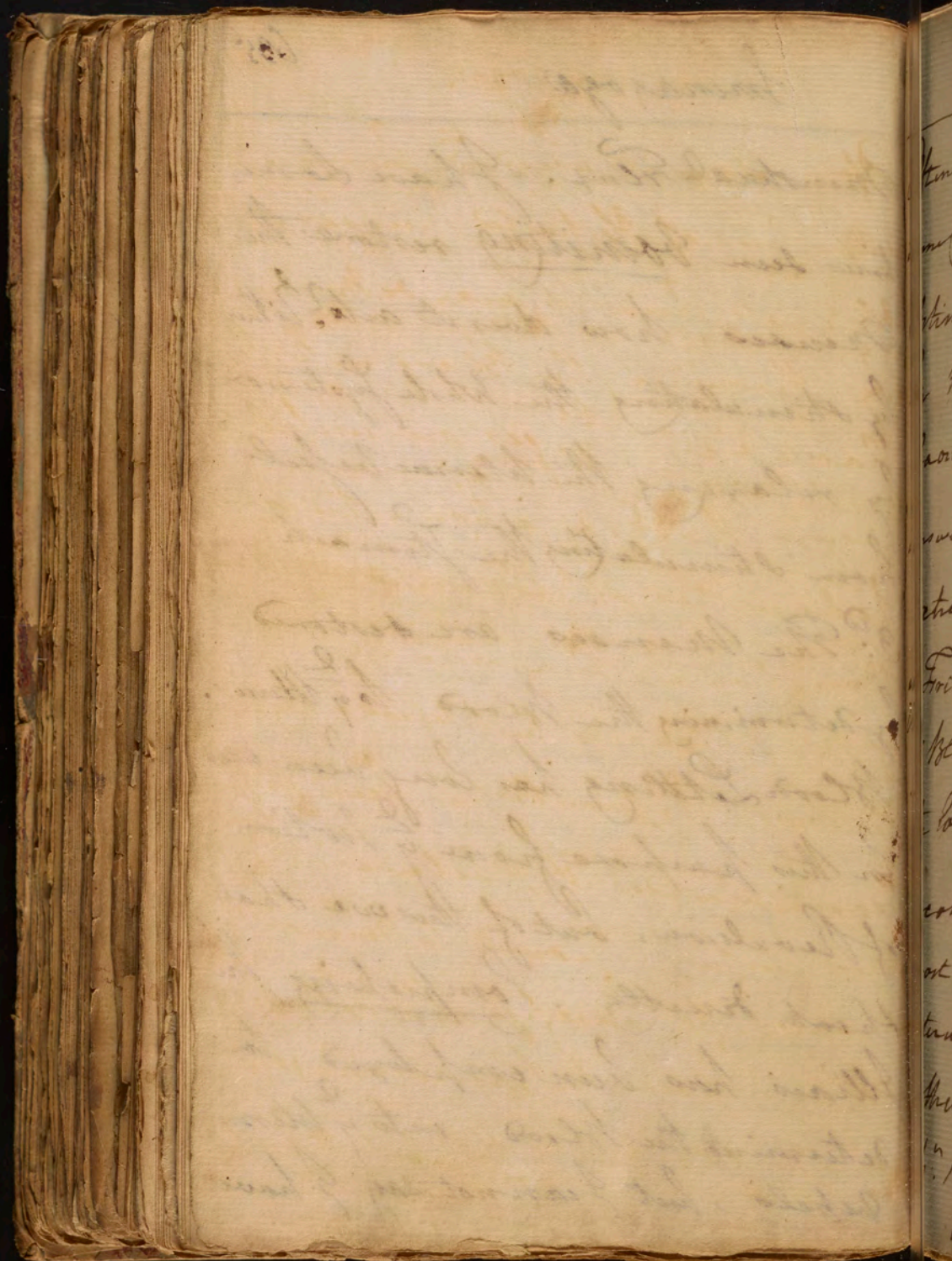
in the morning I went to the
office and found the
letter from the
Governor. It was
dated the 10th of
the month. I read it
and found that the
Governor had
received the letter
from the
Secretary of the
Board of
Education. I
then wrote a
reply to the
Governor and
sent it by
express. I
also wrote a
letter to the
Secretary of the
Board of
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sent it by
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also wrote a
letter to the
Secretary of the
Board of
Education and
sent it by
express.

Exercise & Cold Bathing. The Application of Heat especially in the Winter Season has been known to bring down the Menses. The power of Electricity has done great service in Obstructions of the Menses. its Stimulus is confined chiefly to the Nervous System, & seldom acts upon the Languiferous System. Tonic Medicines such as Chalybeates & Bark are of great service in these Cases. & more purely Stimulating Medicines do service likewise. Mercury in particular has often been employed wth Advantage in restoring the

124

Menstrual Flux. I have some-
times seen Vomiting restore the
Menses. how does it act? Either
by stimulating the whole system or
by relaxing the uterine vessels
from stimulating the stomach.

3.^d The Menses are restored
by determining the blood to ^{the} uterus.
Blood-Letting has long been used
for this purpose from ^{the} notion
of Revulsion. but of this we shall
speak directly. Compressing the
Iliacs has been employed to
determine the blood into ^{the} uterine
vessels, but I cannot say I have

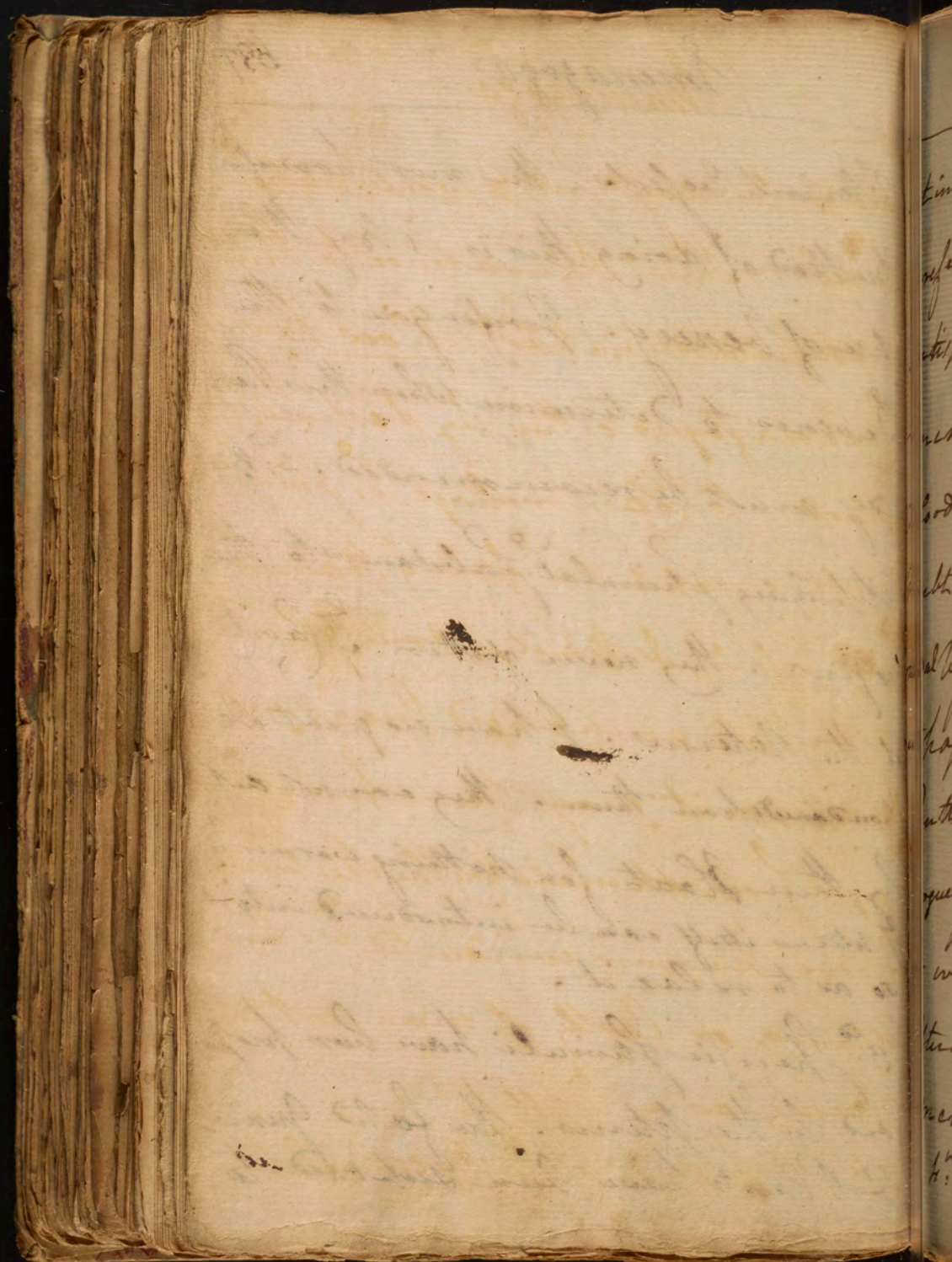


Often seen it used wth Julep - in
some Cases of Obstructed Menses from
Pituitate causes it may do mischief
by throwing the blood into the
Aorta &c. Purges are useful to
answer this Indication. the lower
Extremities sh^d. be excited by means
of Friction w^{ch} brings on a Determination
of blood towards the uterus. Bathing
the lower Extremities has been much
recommended, & I believe it is ^e the
most useful Remedy to derive to ^e the
uterus. It rarefies the Fluids &
thus disposes to Hemorrhage.
1st By exciting the action of ^e the

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

Uterine defects. the most powerful
method of doing this is 1st by the
use of Venus. I refer you to the
Devines to determine when this Re-
medy must be recommended. 2nd by
applying stimulat^g Substances to the
Vagina. they never enter ^{the} Cavity
of the Uterus. I have no great De-
pendance upon them. they cannot act
by their Heat, for nothing warmer ^{2^d}
of the uterus itself can be introduced into it
so as to relax it.

3^d Specific stimuli have been pro-
posed to the Uterus. the factitious
& Plants have been supposed to



act in this way, but I would choose
to refer their Operation to their
Antispasmodic virtues. Allos proves
Menagogue either by despoiling the
Blood to hemorrhage th w: much
Doubt except it is from th y: hemorrh:
oidal vessels, & this it is done from
th passing unchanged thro' th y: small
Gutts, or it may prove Menag:
ogue from stimulating the Rectum
th w: we know is connected w: the
Uterus, or lastly it may act
merely as a Purge.

4th Warm Bathing is calculated



To answer this Indication when
 used in the Form of $\frac{1}{2}$ Lencupium. it
 acts by taking off $\frac{1}{2}$ Resistance in
 the Uterus. its virtues then are chiefly
 Antispasmodic.

Intelligence

to answer the question
in the year 1771
of the year 1771
the year 1771
the year 1771

the year 1771
the year 1771
the year 1771
the year 1771
the year 1771

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the year 1771

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of Blood-Letting. 640

Much Study & Attention has been
bestowed upon this Evacuation at all
times by Physicians. many Disputes
have been agitated concerning it ^{it} w:
indeed is a Reproach to our Dogmatical
Plan of Physic. But this depends
upon our appealing so much to
Experience ^{it} w: is liable to such
great Fallacy, so that this throws
the Reproach upon Empiricism. I
shall avoid entering into the Dis-
putes concerning Blood-Letting, &
deliver you in a few words my
Sentiments upon it. ^{1st} I: then Blood..

[Faint, illegible handwriting on aged paper, likely bleed-through from the reverse side. The text is written in a cursive script.]

[Faint, illegible handwriting on the adjacent page, visible on the right edge.]

Blood-letting

641

Letting acts merely as an Evacuant
& therefore its Effects will be Relative
to the Quantity of the Blood in the
Body. Authors differ about the Quan-
tity of the Fluid in the Body upon $\frac{1}{4}$
but of some of them taking into their
Computations the fluid w: $\frac{1}{4}$ Solids
yield by Chemical Analysis. I shall
confine myself only to the circulating
Fluids, or those Only w: convey red
Blood. every thing drawn by Blood-
letting comes only from $\frac{1}{4}$ red vessels
& its Effects will be confined to them,
or to that Blood only w: circulates
in the larger vessels, for $\frac{1}{4}$ Blood

[Faint, illegible handwriting throughout the page]

of Blood-letting

642

circulating in the serous vessels
is beyond the Reach of $\frac{1}{4}$ Discharge
on Blood-letting occasions. I believe
therefore that the Quantity of Blood
may be placed below 25 in a man
of 120 weight. But again the Effects
of Blood-letting will be diminished
by the Quantity of red Globules
drawn off. You see then that Blood-
letting will occasion a considerable
Depletion in the Arterial System.
Some tell us that ^{this} Depletion is very
transitory from Function being
decreased, & from liquid Aliment
being thrown in to the Body, but this
is not the case.

[Faint, illegible handwriting throughout the page]

of these contribute to $\frac{1}{2}$ immediate
Regeneration of Blood. the last paper
off immediately by Urine or Perspiration.

the Coagulable Lymph & Red Globules
require a solid Aliment to reproduce
them, & this we know is seldom
given in those Cases ^{in the} w: Blood-Letting
is indicated or ordered. all this you see
tends to show that $\frac{1}{2}$ Quantity of Blood
drawn is much greater th w: Regard to
the Rest of the System than has been
Supposed.

The Effects then of Blood-Letting are
1. ^{on} a Diminution of the Tension of $\frac{1}{2}$
Blood-vessels th w: I told you before

25

depends upon a certain Degree of Tension
of these Vessels. The Tension of the
Muscular Fibres & Excitement of
the Sensorium you will naturally see
is closely connected wth the Force of
the Blood - Vessels, as their Action
depend upon a due Influx of
Blood into them. a Debility then
& some Degree of Atonia must al-
ways succeed a Loss of Blood. If the
tonic power is too much increased
from any Cause Blood Letting will
remove it, hence its great Use in
Cases of Inflamm^y. Diathesis.

1782

John Smith

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above mentioned matter. I have the pleasure to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
Your obedient servant,
John Smith

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The vessels are always in a stretched state, & this will an^r for Dr Haller's Experiment in w^{ch} he found upon puncturing an Artery in a living animal that the blood had a retrograde motion in both Arteries & veins towards the open Orifice. It depends upon the stretching powers being taken off, & the vessels reacting on the blood, - w^{ch} causes it to tend towards that Part where the Tension is removed i.e. the Orifice.

This Doctrine overthrows the Notion of Revulsion as the Ballance as of the System will be restored immediately

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1882

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after bleeding. the Doctrine of
Reversion first took its Rise from
Physicians supposing the Arteries
were rigid Canals, but later Experi-
ments have taught us $\frac{1}{2}$ contrary.
I conclude then $\frac{1}{2}$ Blood-Letting acts
only by Depletion. But this Deple-
tion will always be more immediate
& more conspicuous in particular
parts than over the whole System
thence the use & Foundation of
topical bleeding. Thus in an Ophthalmia
taken from near $\frac{1}{2}$ Eye
half the Quantity of Blood will do
more service than three times $\frac{1}{2}$ Quan-
tity taken from the Arm, unless it

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1840

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Depends upon a general Inflammⁿ.
Diathesis of the whole System, or has
induced such an Inflammⁿ. Diathesis.

2nd Other Circumstances attend Blood-
letting besides Depletion. In Cases of
very great pain we often see $\frac{1}{2}$ of
Blood afford immediate Relief. This
depends upon $\frac{1}{2}$ Tension of the System being
very exquisite, & uniformly connected
thro^o all its parts, & w^h makes it
sensible to the least Relative as
well as Absolute Depletion. This Relief
will be greater according to $\frac{1}{2}$ Fulness of
the stream of in w^h it flows.

110

1871

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above mentioned matter. I am sorry to hear that you are not satisfied with the result of the investigation. I have no objection to your making such use of the facts as you may think proper. I am, Sir, very respectfully,
 Yours, &c.
 J. M. Smith

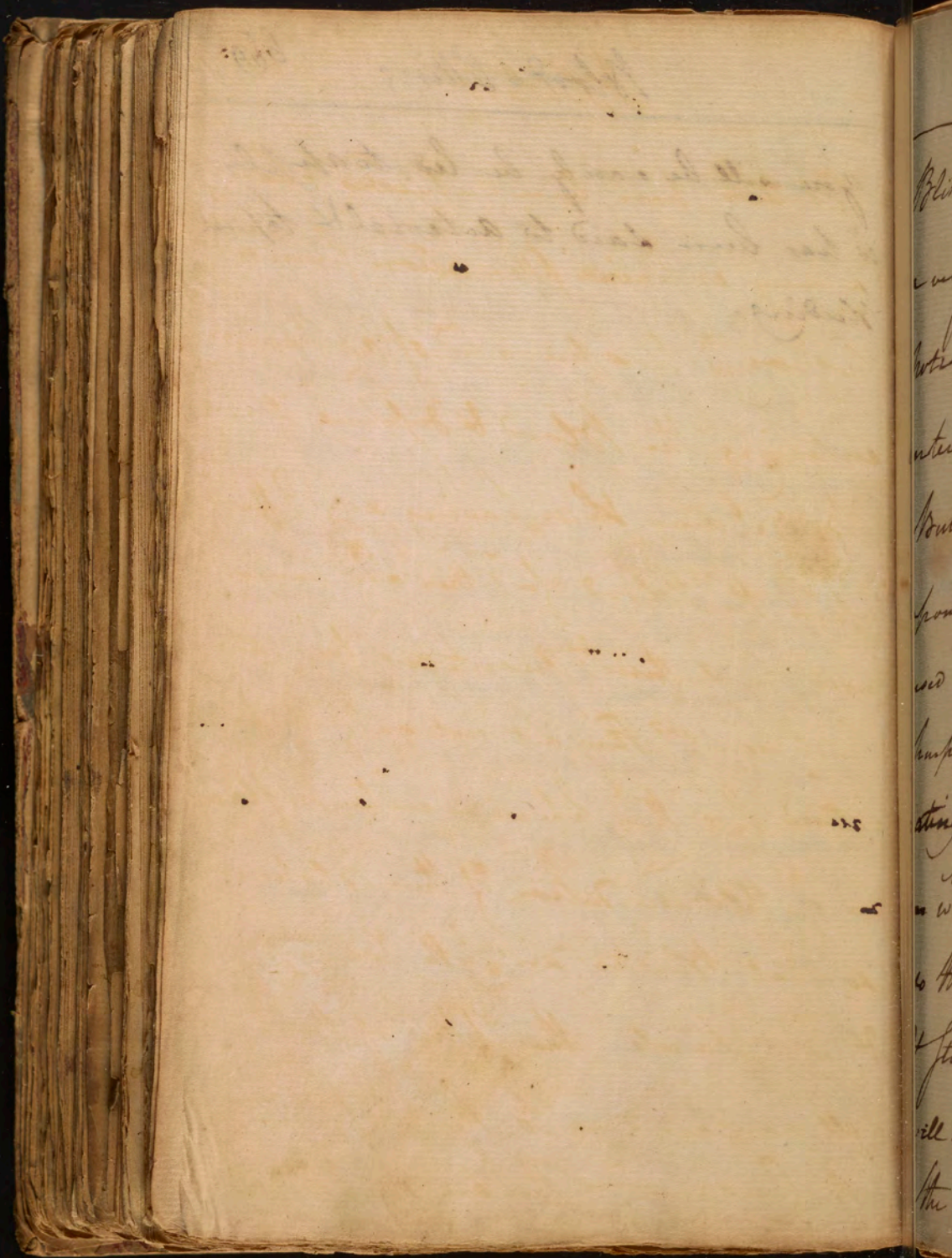
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3.^d Blood Letting will have Effects according to the number of ~~muscles~~ ^{muscles} in Action ^{wh} tend to keep up the Irritability of the system. hence ^e Foundation of Bleeding in a recumbent Posture. The nearer we are to Lying on our Backs. the less ^{muscles} act - & the slower the Pulse. The Symptoms th follow Bleeding depend upon a Relaxation induced in the ~~Subs~~ Arteries th w: is communicated to the whole System. I have seen a hail young Fellow fall into a Syncope upon having a tense Impostume about the fire of a Pistle of the small pox opened in his Forehead.



zahl. hoch

you will be easily be led to apply
w^h has been said to arterial & topical
bleeding.



Blisters have been supposed to have
a very extensive Operation from a
notionth has prevailed of Cantharides
entering the Blood & discolours it.

But I deny their having any Effects
upon the Blood. for 1st they are never
used in suffici^t Quantities for this
purpose. 2nd They act not only by evacua-
ting but they likewise excite Inflammⁿ.
w^h the Foundation of their blistering.
so that Blisters are both Evacuants
& Stimulants. the Effects of Blisters
will vary according to the Difference of
the Constitution they are employed in.

1874

When there is little Irritability they
excite no Inflammⁿ: nor even quicken
the Pulse. In Constitutions of a contrary
Temperament they prove stimulat^g: &
quicken the pulse. 3^o They relieve an
Inflammⁿ: in a particular part by
bringing on an Effusion of Serum
towards which the Inflammⁿ: itself did not
naturally tend. This shows you their
Usefulness in Rheumatism. By this
topical evacuation it often takes off
a morbid Tension from the whole System,
but their Effects are always the more consi-
derable the nearer they are applied to a

110

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particular parts. But still I think the
Tension of the whole surface of the
skin may be greatly influen^d. by the
Application of Blisters to ~~the whole~~
any Part of the body.

This is an Evacuation of Matter in
the Form of Pus & from late Discoveries
it appears to be produced from Lymph,
very strongly impregnated w: Coagulable
Lymph. The Discharge then from Spines
may be considered as nearly pure Coa-
gulable Lymph, & comes directly from
the Languiferous System. Its Effects
therefore are more considerable w:
Regard to the System than we would
suppose from the Quantity ^{Discharged}. They
draw off the Lymph faster than it is
supplied by Aliment. -

Handwritten text at the top of the page, possibly a title or header.

Main body of handwritten text, appearing to be a letter or a journal entry, written in cursive script. The text is mostly illegible due to fading and bleed-through from the reverse side.

Fragment of handwritten text visible on the right edge of the page, likely from the adjacent page.

But again Gpus always keep up
a topical Inflammⁿ. for there can
be no Suppuration without ^{some} Inflammⁿ.
- By this Operation they Obviate:
critical Inflammⁿ. & hence their useful-
ness in the Phtisis Pulmonalis. If
the Body is affected th w an Inflammⁿ.
Diathesis while an Gpus runs the
Inflammⁿ Determinⁿ is towards the
Gpus, & thus often prevents inter-
nal Inflammations. —

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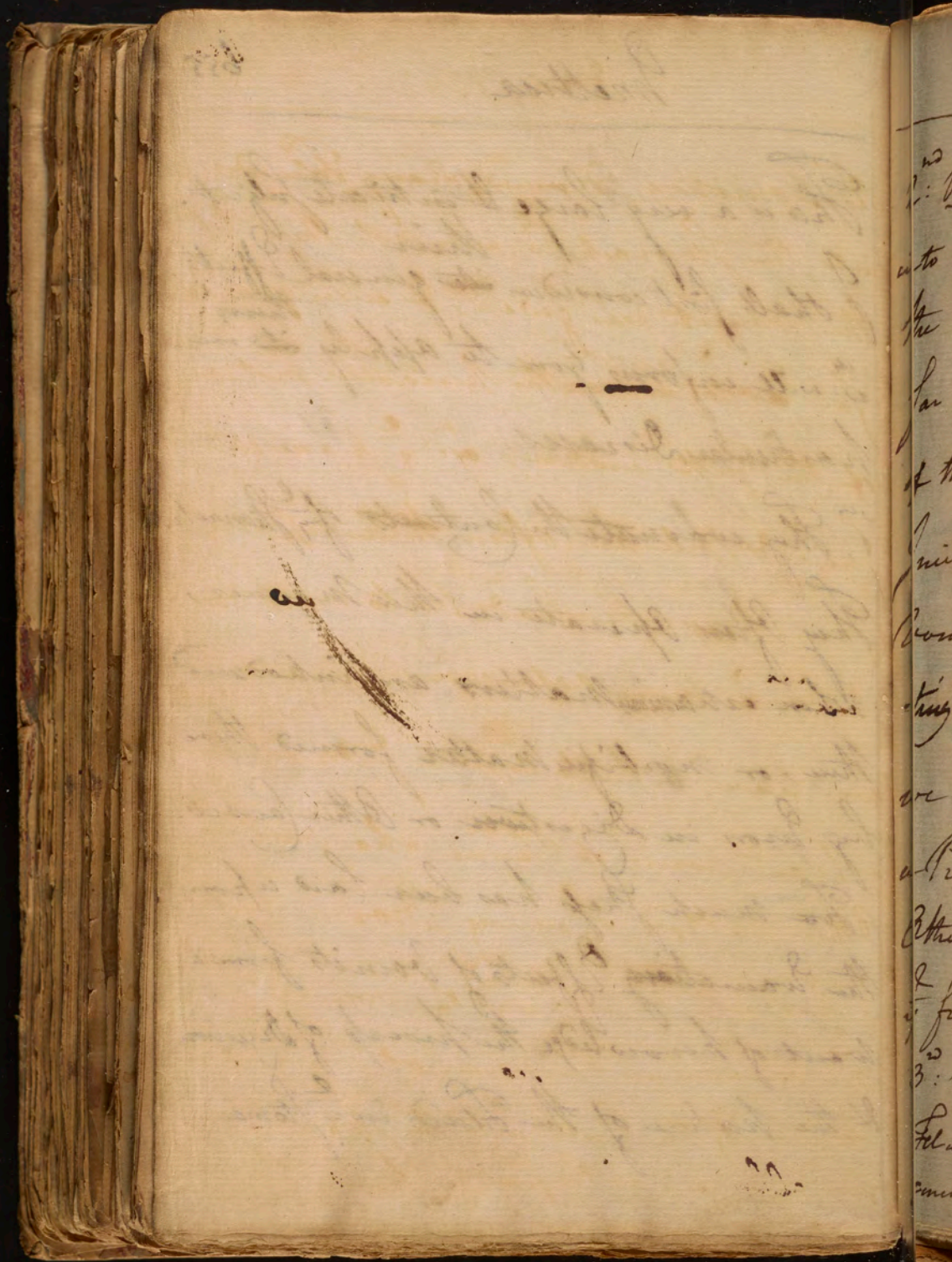
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This is a very large & intricate Subject.
 I shall first consider ^{their} ~~its~~ general Effects,
^{we} will inform you to apply ^{them} ~~it~~ in
 particular Diseases

1. They evacuate the Contents of ^{the} Stomach.

They often Operate in this Manner,
 when extraneous matters are introduced
 there, or morbid matter formed there
 by Error in Digestion or Other Causes.

Too much Stress has been laid upon
 the Evacuating Effects of Vomits from a
 want of knowledge the process of Digestion
 & the nature of the Fluid in ^{the} Stomach.



2nd Vomiting derives many Solids into the stomach th were not there till the vomit was given, & even goes so far as to ~~inhibit~~ ^{inhibit} the peristaltic motion of the Guts inasmuch ^{as} $\frac{1}{4}$ pancreatic Juice & Bile are often thrown up by Vomiting. This leads us to view vomiting in a more extensive manner ^{than} $\frac{1}{4}$ we have hitherto done. I once knew a Practitioner of Physic who used no other method of curing Dropsy but by $\frac{1}{4}$ frequent Exibition of vomits.

3rd Vomiting in consequence of bringing the Solids of the Guts into the stomach generally acts as a ⁱⁿ Purge perhaps the best

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of some part of $\frac{c}{y}$ vomit over the Pylorus may contribute to bring on the Purging.

2^d. In vomiting the Contraction of the Diaphragm & Abdominal ^{muscles} compresses the Abdominal viscera by w^{ch} means the Course of the blood is variously interrupted & relaxed. they act likewise as a Stimulus to all $\frac{c}{y}$ viscera & operate on $\frac{c}{y}$ Liver. Kidneys. Urine &c. The Liver in particular is very liable to a torpid Circulation & a stagnation of blood. no Medicines are capable of reaching it. Vomiting therefore acts immediately upon it, & therefore sh^d be used very freely in Diseases of the Liver. great Caution

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sh^d? be used in Diseases of the Kidneys especially
in Cases of Stone when they are very large.

In Obstructions of the Menstrues the Comprehension
aided by vomiting. excites the Reflux of the
Uterus & thus often bring on a Flux of
the Menstrues. In Retention of Menstrues

they have likewise been employed ⁱⁿ success
- here I shall say in ^{not} a manner.

5th They operate on the Thorax & promote
a free Circulation of the blood thro^ug^h
Lungs. they cause the mucous Glands
to exude plentifully & thus prove ^{the}
most useful Expectorants.

6th They relieve Congestions of ~~the~~ ^{the} ~~head~~ ⁱⁿ
Head in particular Cases. But here
they sh^d? be used only ^{at} a certain period

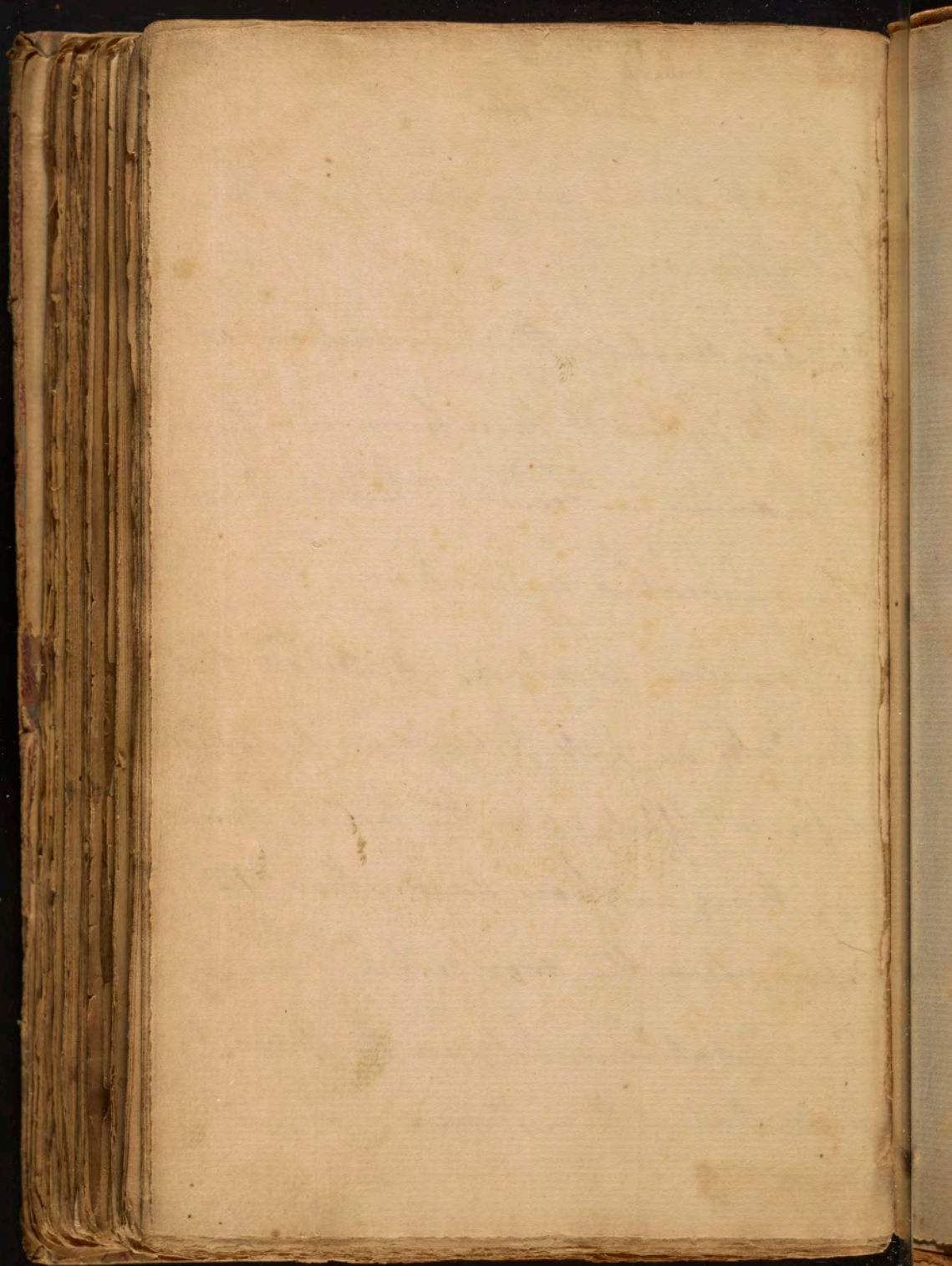
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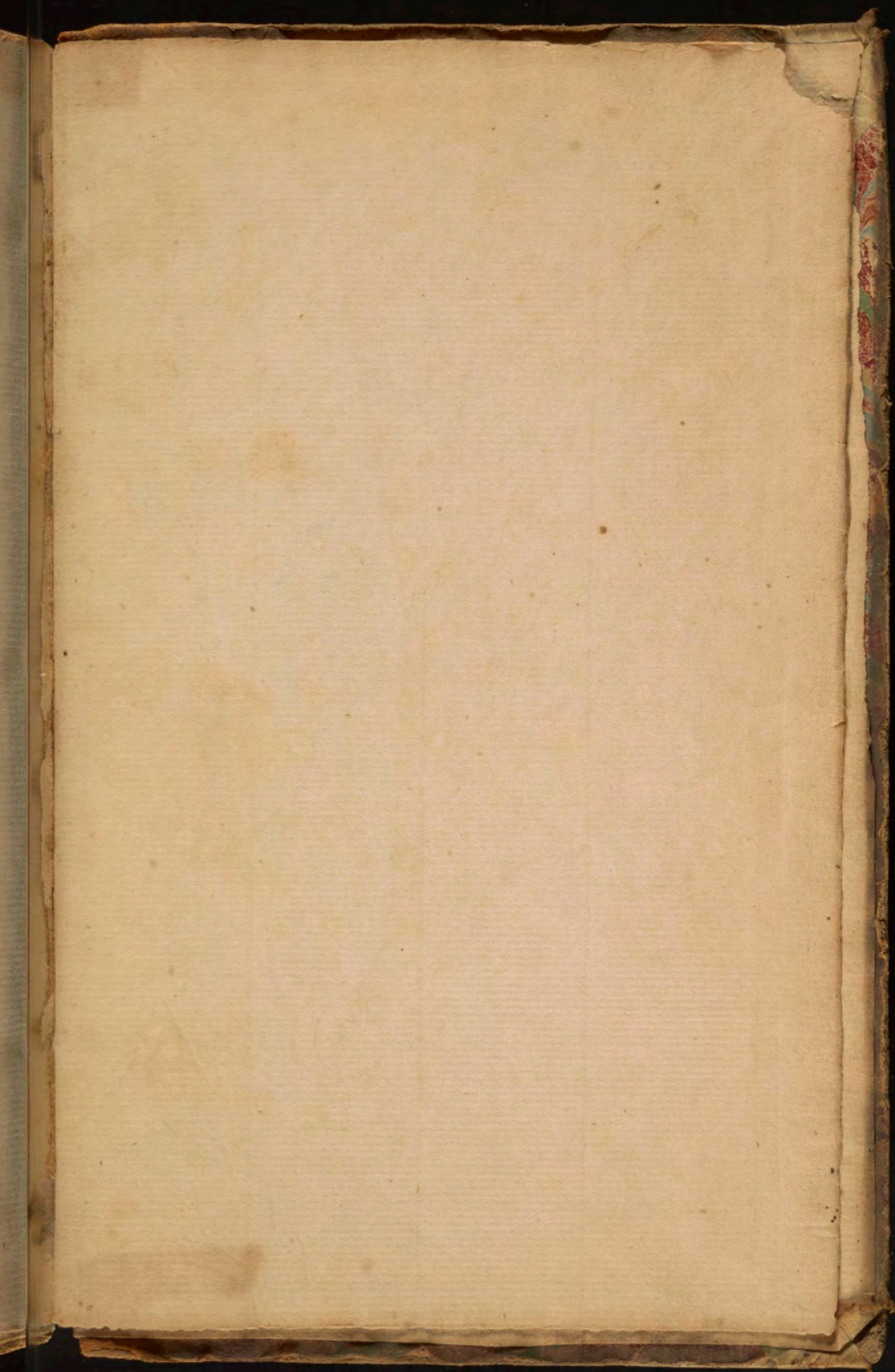
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of Life & under very particular
Restrictions.

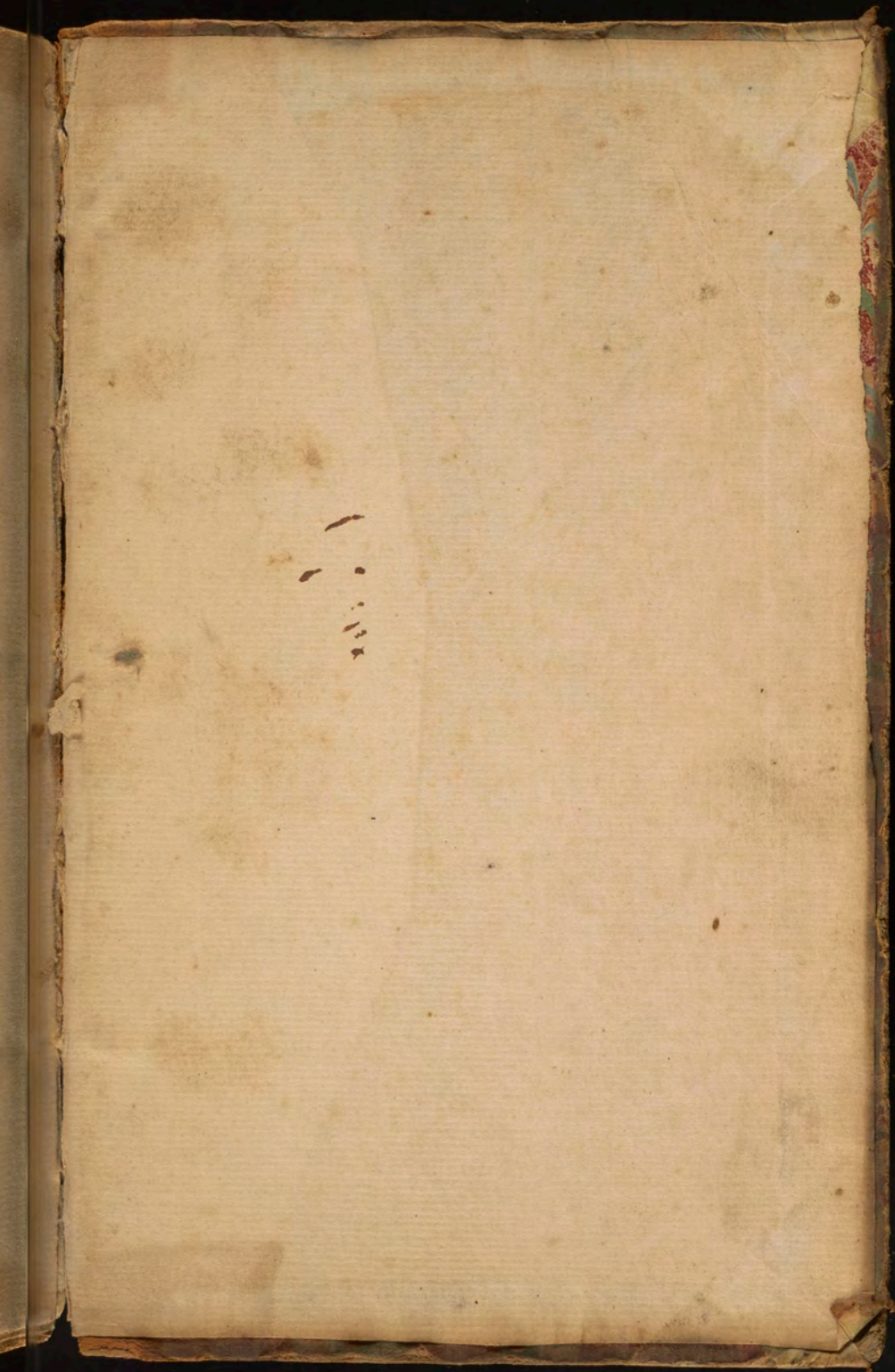
7.ⁿ They quicken the Circulation all
over the System & thus prove very power-
ful Sudorifics in Fevers & Other Diseases
when Sweating is necessary.

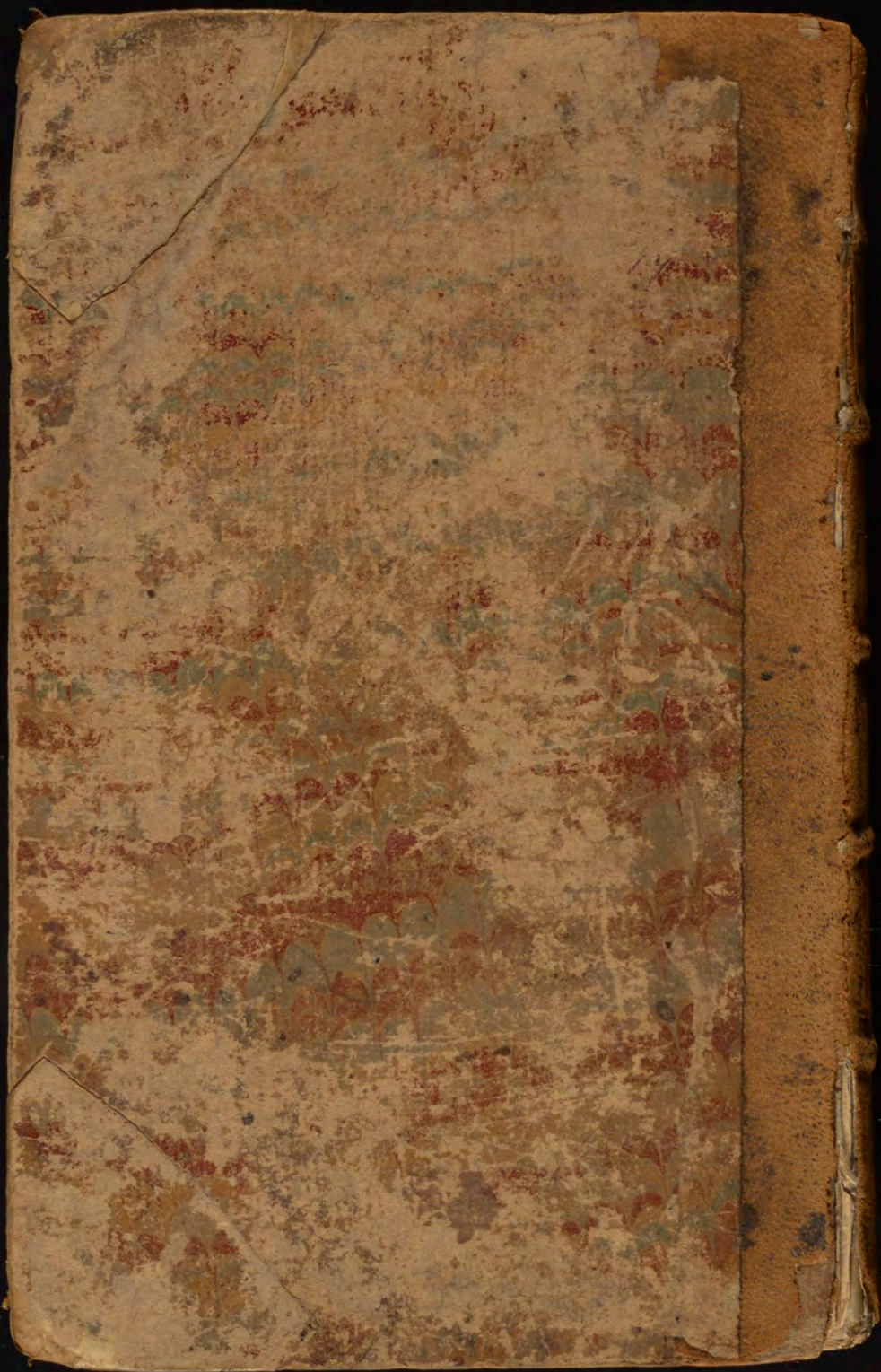
8.ⁿ Vomiting is always attended w:th that
Anxiety we call sickness w:^{ch} has very
different Effects upon the System from
any thing we have said. These Effects
depend upon the wonderful Connection
w:^{ch} is established between the Stomach
& the Rest of the System. —





Notes





Cullen's
Institutes
Vol III